

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue  
Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-67898-1

TestAmerica Sample Delivery Group: HAQ036

Client Project/Site: Aqualon Hopewell - GW CA APR 2011

**For:**

Ashland Inc.  
Ashland Hercules Research Center  
500 Hercules Rd Bldg 8139  
Wilmington, Delaware 19808

Attn: Bruce Hough

Authorized for release by:

06/10/2011 11:40:53 AM

Lidya Gulizia  
Project Manager II  
[lidya.gulizia@testamericainc.com](mailto:lidya.gulizia@testamericainc.com)

cc: Erin Wright

### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?

Ask  
The  
Expert

Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Case Narrative . . . . .	3
Sample Summary . . . . .	5
Method Summary . . . . .	6
Definitions . . . . .	7
Client Sample Results . . . . .	9
Surrogate Summary . . . . .	89
QC Sample Results . . . . .	91
QC Association . . . . .	137
Chronicle . . . . .	144
Chain of Custody . . . . .	150
Sample Receipt Checklist . . . . .	152
Certification Summary . . . . .	154

# Case Narrative

Client: Ashland Inc.  
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1  
SDG: HAQ036

## Job ID: 680-67898-1

### Laboratory: TestAmerica Savannah

#### Narrative

#### Job Narrative 680-67898-1 / SDG HAQ036

#### Receipt

One amber liter for client sample Equipment Blank was received broken upon receipt.

All other samples were received in good condition within temperature requirements.

#### GC/MS VOA

Method(s) 8260B: Manual integration was performed on the following sample(s): MW-9 (680-67898-5).

No other analytical or quality issues were noted.

#### GC/MS Semi VOA

Method(s) 8270C LL: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for batch 202119 exceeded control limits for the following analyte(s): hexachlorophene and famphur. They have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 202119 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8270C LL: The method blank for batch 202199 contained Acetophenone and 1,4-Dichlorobenzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. Samples have been flagged accordingly.

No other analytical or quality issues were noted.

#### GC VOA

Method(s) 8015B: A laboratory control sample (LCS) was inadvertently omitted in the batch associated with the original analysis of the following samples: MW-1 (680-67948-1), NAT-4 (680-67948-2). Reanalysis was performed outside of the analytical holding time for these samples and results have been flagged for holding time. The original data has not been provided and only reanalysis results are included in the report.

Method(s) 8015B: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for one analyte to recover outside criteria for this method when a full list spike is utilized. The LCSD associated with batch 205003 had one analyte outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8015B: The trip blank associated with these samples was analyzed outside of holding time for Ethanol, Isopropanol and Methanol. The trip blank results for these compounds have been flagged accordingly.

No other analytical or quality issues were noted.

#### Metals

Method(s) 6020: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample(s): MW-5U (680-67898-7).

Method(s) 6020: Due to the high concentration of barium, calcium, iron, magnesium, manganese, and sodium, the matrix spike / matrix spike duplicate (MS/MSD) for batch 680-201997 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 6020: Due to the high concentration of barium, calcium, iron, magnesium, and manganese, the matrix spike / matrix spike duplicate (MS/MSD) for batch 680-201999 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

## Case Narrative

Client: Ashland Inc.  
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1  
SDG: HAQ036

### Job ID: 680-67898-1 (Continued)

#### Laboratory: TestAmerica Savannah (Continued)

Method(s) 6020: The method blank for batch 201977 contained Potassium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other analytical or quality issues were noted.

#### General Chemistry

Method(s) 325.2, SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 203698 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 351.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for sample MW-4 (680-67898-2 MS), MW-4 (680-67898-2 MSD) were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 375.4: The following sample(s) was diluted due to the nature of the sample matrix: MW-4 (680-67898-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

#### Comments

No additional comments.

# Sample Summary

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-67898-1	VFSP-MW-1	Water	04/29/11 09:15	04/30/11 10:50
680-67898-2	MW-4	Water	04/29/11 10:45	04/30/11 10:50
680-67898-3	EQUIPMENT BLANK	Water	04/29/11 11:40	04/30/11 10:50
680-67898-4	MW-4U	Water	04/29/11 12:35	04/30/11 10:50
680-67898-5	MW-9	Water	04/29/11 14:05	04/30/11 11:05
680-67898-6	MW-5	Water	04/29/11 11:40	04/30/11 10:50
680-67898-7	MW-5U	Water	04/29/11 10:40	04/30/11 10:50
680-67898-8	FIELD BLANK	Water	04/29/11 00:00	04/30/11 10:50
680-67898-9	FIELD DUPLICATE	Water	04/29/11 00:00	04/30/11 10:50
680-67898-10	MW-2	Water	04/29/11 14:30	04/30/11 10:50
680-67898-11	TRIP BLANK 4	Water	04/29/11 00:00	04/30/11 10:50
680-67948-1	MW-1	Water	05/02/11 09:25	05/03/11 11:28
680-67948-2	NAT-4	Water	05/02/11 09:55	05/03/11 11:28
680-67948-3	Trip Blank	Water	05/02/11 00:00	05/03/11 11:28

1

2

3

4

5

6

7

8

9

10

11

12

13

14

TestAmerica Savannah

# Method Summary

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL SAV
8015B	Nonhalogenated Organic Compounds - Direct Injection (GC)	SW846	TAL SAV
6020	Metals (ICP/MS)	SW846	TAL SAV
325.2	Chloride	MCAWW	TAL SAV
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV
375.4	Sulfate	MCAWW	TAL SAV
9060	Organic Carbon, Total (TOC)	SW846	TAL SAV

## Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

# Definitions/Glossary

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

### GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
N	This flag indicates the presumptive evidence of a compound.
T	Result is a tentatively identified compound (TIC) and an estimated value.

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
B	Compound was found in the blank and sample.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

### GC/MS Semi VOA TICs

Qualifier	Qualifier Description
A	The tentatively identified compound is a suspected aldol-condensation product.
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.
T	Result is a tentatively identified compound (TIC) and an estimated value.

### GC VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
H	Sample was prepped or analyzed beyond the specified holding time
U	Indicates the analyte was analyzed for but not detected.

### Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

### General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
⊗	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit

## Definitions/Glossary

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

### Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: VFSP-MW-1**

**Lab Sample ID: 680-67898-1**

**Matrix: Water**

Date Collected: 04/29/11 09:15

Date Received: 04/30/11 10:50

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/06/11 02:40	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 02:40	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 02:40	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 02:40	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 02:40	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 02:40	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 02:40	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 02:40	1
2-Butanone	10	U	10	1.0	ug/L			05/06/11 02:40	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 02:40	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 02:40	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 02:40	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 02:40	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 02:40	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 02:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 02:40	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 02:40	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 02:40	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 02:40	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 02:40	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 02:40	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/06/11 02:40	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 02:40	1
<b>Diethyl ether</b>	<b>69</b>		10	1.0	ug/L			05/06/11 02:40	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 02:40	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 02:40	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 02:40	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/06/11 02:40	1
Isobutyl alcohol	40	U	40	11	ug/L			05/06/11 02:40	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 02:40	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 02:40	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 02:40	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 02:40	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 02:40	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 02:40	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 02:40	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 02:40	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 02:40	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 02:40	1
<b>t-Butanol</b>	<b>6.3</b>		5.0	2.6	ug/L			05/06/11 02:40	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 02:40	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 02:40	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 02:40	1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: VFSP-MW-1**

**Lab Sample ID: 680-67898-1**

**Matrix: Water**

Date Collected: 04/29/11 09:15

Date Received: 04/30/11 10:50

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 02:40	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 02:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 02:40	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 02:40	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 02:40	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 02:40	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 02:40	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 02:40	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 02:40	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 02:40	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 02:40	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 02:40	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 02:40	1

## Tentatively Identified Compound

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	None		ug/L					05/06/11 02:40	1

## Surrogate

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		70 - 130		05/06/11 02:40	1
Dibromofluoromethane	104		70 - 130		05/06/11 02:40	1
Toluene-d8 (Surr)	102		70 - 130		05/06/11 02:40	1

## Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 01:30	1
Ethanol	1000	U	1000	330	ug/L			05/13/11 00:23	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 00:23	1
Methanol	1000	U	1000	830	ug/L			05/13/11 00:23	1

## Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	73	J	100	50	ug/L		05/05/11 11:21	05/11/11 07:00	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:00	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/05/11 11:21	05/11/11 07:00	1
Barium	180		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 07:00	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 07:00	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 07:00	1
Calcium	86000		500	170	ug/L		05/05/11 11:21	05/11/11 07:00	1
Chromium	5.0	U	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 07:00	1
Cobalt	2.2		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 07:00	1
Copper	1.1	J	5.0	1.1	ug/L		05/05/11 11:21	05/11/11 07:00	1
Iron	3900		100	44	ug/L		05/05/11 11:21	05/11/11 07:00	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 07:00	1
Magnesium	8300		250	100	ug/L		05/05/11 11:21	05/11/11 07:00	1
Manganese	760		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:00	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 07:00	1
Nickel	2.4	J	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:00	1
Potassium	6600	B	1000	330	ug/L		05/05/11 11:21	05/11/11 07:00	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 07:00	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 07:00	1
Sodium	35000		500	170	ug/L		05/05/11 11:21	05/11/11 07:00	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.  
 Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1  
 SDG: HAQ036

**Client Sample ID: VFSP-MW-1**

**Lab Sample ID: 680-67898-1**

Date Collected: 04/29/11 09:15  
 Date Received: 04/30/11 10:50

Matrix: Water

**Method: 6020 - Metals (ICP/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 07:00	1
Vanadium	10	U	10	3.2	ug/L		05/05/11 11:21	05/11/11 07:00	1
Zinc	20	U	20	8.4	ug/L		05/05/11 11:21	05/11/11 07:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51000		1000	180	ug/L		05/21/11 12:18		1
Nitrogen, Kjeldahl	370		200	150	ug/L		05/17/11 10:30	05/18/11 15:54	1
Nitrate as N	50	U	50	10	ug/L		04/30/11 22:21		1
Nitrite as N	50	U	50	10	ug/L		04/30/11 22:21		1
Sulfate	130000		25000	12000	ug/L		05/23/11 12:11		5
Total Organic Carbon	680	J	1000	500	ug/L		05/17/11 18:24		1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-4**

**Lab Sample ID: 680-67898-2**

**Matrix: Water**

Date Collected: 04/29/11 10:45

Date Received: 04/30/11 10:50

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/06/11 03:03	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 03:03	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 03:03	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 03:03	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 03:03	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 03:03	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 03:03	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 03:03	1
2-Butanone	10	U	10	1.0	ug/L			05/06/11 03:03	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 03:03	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 03:03	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 03:03	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 03:03	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 03:03	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 03:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 03:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 03:03	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 03:03	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 03:03	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 03:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 03:03	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/06/11 03:03	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 03:03	1
<b>Diethyl ether</b>	<b>1600</b>	<b>E</b>	10	1.0	ug/L			05/06/11 03:03	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 03:03	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 03:03	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 03:03	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/06/11 03:03	1
Isobutyl alcohol	40	U	40	11	ug/L			05/06/11 03:03	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 03:03	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 03:03	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 03:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 03:03	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 03:03	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 03:03	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 03:03	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 03:03	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 03:03	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 03:03	1
<b>t-Butanol</b>	<b>3200</b>	<b>E</b>	5.0	2.6	ug/L			05/06/11 03:03	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 03:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 03:03	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 03:03	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: MW-4

## Lab Sample ID: 680-67898-2

Matrix: Water

Date Collected: 04/29/11 10:45

Date Received: 04/30/11 10:50

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 03:03	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 03:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 03:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 03:03	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 03:03	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 03:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 03:03	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 03:03	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:03	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 03:03	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 03:03	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 03:03	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 03:03	1
<b>Tentatively Identified Compound</b>	<b>Est. Result</b>	<b>Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>RT</b>	<b>CAS No.</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tentatively Identified Compound	None		ug/L					05/06/11 03:03	1
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	94		70 - 130					05/06/11 03:03	1
Dibromofluoromethane	101		70 - 130					05/06/11 03:03	1
Toluene-d8 (Surr)	102		70 - 130					05/06/11 03:03	1

### Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1200	U	1200	250	ug/L			05/06/11 12:50	50
Acetonitrile	2000	U	2000	500	ug/L			05/06/11 12:50	50
Acrolein	1000	U	1000	370	ug/L			05/06/11 12:50	50
Acrylonitrile	1000	U	1000	360	ug/L			05/06/11 12:50	50
Allyl chloride	50	U	50	10	ug/L			05/06/11 12:50	50
Benzene	50	U	50	12	ug/L			05/06/11 12:50	50
Benzyl chloride	50	U	50	50	ug/L			05/06/11 12:50	50
Bromodichloromethane	50	U	50	12	ug/L			05/06/11 12:50	50
Bromoform	50	U	50	25	ug/L			05/06/11 12:50	50
Bromomethane	50	U	50	40	ug/L			05/06/11 12:50	50
2-Butanone	500	U	500	50	ug/L			05/06/11 12:50	50
Carbon disulfide	100	U	100	30	ug/L			05/06/11 12:50	50
Carbon tetrachloride	50	U	50	25	ug/L			05/06/11 12:50	50
Chlorobenzene	50	U	50	12	ug/L			05/06/11 12:50	50
Chloroethane	50	U	50	50	ug/L			05/06/11 12:50	50
Chloroform	50	U	50	7.0	ug/L			05/06/11 12:50	50
Chloromethane	50	U	50	16	ug/L			05/06/11 12:50	50
Chloroprene	50	U	50	15	ug/L			05/06/11 12:50	50
cis-1,2-Dichloroethene	50	U	50	7.5	ug/L			05/06/11 12:50	50
cis-1,3-Dichloropropene	50	U	50	5.5	ug/L			05/06/11 12:50	50
Dibromochloromethane	50	U	50	5.0	ug/L			05/06/11 12:50	50
1,2-Dibromo-3-Chloropropane	50	U	50	22	ug/L			05/06/11 12:50	50
1,2-Dibromoethane	50	U	50	12	ug/L			05/06/11 12:50	50
Dibromomethane	50	U	50	10	ug/L			05/06/11 12:50	50
Dichlorodifluoromethane	50	U	50	12	ug/L			05/06/11 12:50	50
1,1-Dichloroethane	50	U	50	12	ug/L			05/06/11 12:50	50
1,2-Dichloroethane	50	U	50	5.0	ug/L			05/06/11 12:50	50

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-4**

**Lab Sample ID: 680-67898-2**

**Matrix: Water**

Date Collected: 04/29/11 10:45

Date Received: 04/30/11 10:50

## Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	50	U	50	5.5	ug/L			05/06/11 12:50	50
1,2-Dichloropropane	50	U	50	6.5	ug/L			05/06/11 12:50	50
<b>Diethyl ether</b>	<b>1400</b>	<b>D</b>	500	50	ug/L			05/06/11 12:50	50
Ethylbenzene	50	U	50	5.5	ug/L			05/06/11 12:50	50
Ethylene oxide	10000	U	10000	10000	ug/L			05/06/11 12:50	50
Ethyl methacrylate	50	U	50	12	ug/L			05/06/11 12:50	50
2-Hexanone	500	U	500	50	ug/L			05/06/11 12:50	50
Iodomethane	250	U	250	50	ug/L			05/06/11 12:50	50
Isobutyl alcohol	2000	U	2000	550	ug/L			05/06/11 12:50	50
Methacrylonitrile	1000	U	1000	160	ug/L			05/06/11 12:50	50
Methylene Chloride	250	U	250	50	ug/L			05/06/11 12:50	50
Methyl methacrylate	50	U	50	24	ug/L			05/06/11 12:50	50
4-Methyl-2-pentanone (MIBK)	500	U	500	50	ug/L			05/06/11 12:50	50
Methyl tert-butyl ether	500	U	500	10	ug/L			05/06/11 12:50	50
n-Heptane	50	U	50	21	ug/L			05/06/11 12:50	50
Pentachloroethane	250	U	250	60	ug/L			05/06/11 12:50	50
Propionitrile	1000	U	1000	230	ug/L			05/06/11 12:50	50
Propylene oxide	10000	U	10000	10000	ug/L			05/06/11 12:50	50
Styrene	50	U	50	5.5	ug/L			05/06/11 12:50	50
<b>t-Butanol</b>	<b>2800</b>	<b>D</b>	250	130	ug/L			05/06/11 12:50	50
1,1,1,2-Tetrachloroethane	50	U	50	16	ug/L			05/06/11 12:50	50
1,1,2,2-Tetrachloroethane	50	U	50	9.0	ug/L			05/06/11 12:50	50
Tetrachloroethene	50	U	50	7.5	ug/L			05/06/11 12:50	50
Toluene	50	U	50	16	ug/L			05/06/11 12:50	50
trans-1,4-Dichloro-2-butene	100	U	100	25	ug/L			05/06/11 12:50	50
trans-1,2-Dichloroethene	50	U	50	10	ug/L			05/06/11 12:50	50
trans-1,3-Dichloropropene	50	U	50	10	ug/L			05/06/11 12:50	50
1,2,3-Trichlorobenzene	50	U	50	18	ug/L			05/06/11 12:50	50
1,1,1-Trichloroethane	50	U	50	25	ug/L			05/06/11 12:50	50
1,1,2-Trichloroethane	50	U	50	6.5	ug/L			05/06/11 12:50	50
Trichloroethylene	50	U	50	6.5	ug/L			05/06/11 12:50	50
Trichlorofluoromethane	50	U	50	12	ug/L			05/06/11 12:50	50
1,2,3-Trichloropropane	50	U	50	20	ug/L			05/06/11 12:50	50
Vinyl acetate	100	U	100	14	ug/L			05/06/11 12:50	50
Vinyl chloride	50	U	50	9.0	ug/L			05/06/11 12:50	50
Xylenes, Total	100	U	100	10	ug/L			05/06/11 12:50	50

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					05/06/11 12:50	50

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		70 - 130			50
Dibromofluoromethane	100		70 - 130			50
Toluene-d8 (Surf)	105		70 - 130			50

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Acenaphthylene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
<b>Acetophenone</b>	<b>0.13</b>	<b>J B</b>	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Acetylaminofluorene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: MW-4

Date Collected: 04/29/11 10:45

Date Received: 04/30/11 10:50

## Lab Sample ID: 680-67898-2

Matrix: Water

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha,alpha-Dimethyl phenethylamine	9.6	U	9.6	3.2	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/06/11 14:51	06/02/11 14:27	1
Aniline	1.9	U	1.9	0.93	ug/L		05/06/11 14:51	06/02/11 14:27	1
Anthracene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
Benzo[a]anthracene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Benzo[a]pyrene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Benzo[b]fluoranthene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Benzo[k]fluoranthene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Benzyl alcohol	0.96	U	0.96	0.13	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,1'-Biphenyl	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Bromophenyl phenyl ether	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
Butyl benzyl phthalate	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Chloro-3-methylphenol	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Chloronaphthalene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Chlorophenol	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Chlorophenyl phenyl ether	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/06/11 14:51	06/02/11 14:27	1
Diallate	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Dibenzofuran	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,2-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,3-Dichlorobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
<b>1,4-Dichlorobenzene</b>	<b>0.41</b>	<b>J B</b>	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,4-Dichlorophenol	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,6-Dichlorophenol	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Diethyl phthalate	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
7,12-Dimethylbenz(a)anthracene	0.96	U	0.96	0.19	ug/L		05/06/11 14:51	06/02/11 14:27	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,4-Dimethylphenol	1.9	U	1.9	0.66	ug/L		05/06/11 14:51	06/02/11 14:27	1
Dimethyl phthalate	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Di-n-butyl phthalate	0.96	U	0.96	0.37	ug/L		05/06/11 14:51	06/02/11 14:27	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,4-Dinitrophenol	9.6	U	9.6	1.1	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,4-Dinitrotoluene	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,6-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		05/06/11 14:51	06/02/11 14:27	1
Di-n-octyl phthalate	0.96	U	0.96	0.16	ug/L		05/06/11 14:51	06/02/11 14:27	1
<b>1,4-Dioxane</b>	<b>4.0</b>		1.9	0.30	ug/L		05/06/11 14:51	06/02/11 14:27	1
Disulfoton	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Ethyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Ethyl Parathion	1.9	U	1.9	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Famphur	0.96	U *	0.96	0.15	ug/L		05/06/11 14:51	06/02/11 14:27	1
Fluoranthene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-4**

**Lab Sample ID: 680-67898-2**

Date Collected: 04/29/11 10:45

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Hexachlorobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Hexachlorobutadiene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1
Hexachloroethane	0.96	U	0.96	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1
Hexachlorophene	480	U *	480	24	ug/L		05/06/11 14:51	06/02/11 14:27	1
Hexachloropropene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Isophorone	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Isosafrole	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
m-Dinitrobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 14:27	1
3-Methylcholanthrene	0.96	U	0.96	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1
Methyl methanesulfonate	1.9	U	1.9	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Methylnaphthalene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Methyl parathion	0.96	U	0.96	0.12	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/06/11 14:51	06/02/11 14:27	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 14:27	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 14:27	1
Naphthalene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,4-Naphthoquinone	0.96	U	0.96	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Nitroaniline	0.96	U	0.96	0.15	ug/L		05/06/11 14:51	06/02/11 14:27	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1
Nitrobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
5-Nitro-o-toluidine	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Nitrophenol	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.1	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosodiethylamine	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosodimethylamine	0.96	U	0.96	0.24	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosodi-n-butylamine	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.12	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.35	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosomorpholine	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosopiperidine	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
N-Nitrosopyrrolidine	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
o,o',o"-Triethylphosphorothioate	0.96	U	0.96	0.12	ug/L		05/06/11 14:51	06/02/11 14:27	1
o-Toluidine	0.96	U	0.96	0.12	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/06/11 14:51	06/02/11 14:27	1
Pentachlorobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Pentachloronitrobenzene	0.96	U	0.96	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/06/11 14:51	06/02/11 14:27	1
Phenacetin	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Phenanthrene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Phenol	0.96	U	0.96	0.12	ug/L		05/06/11 14:51	06/02/11 14:27	1
Phenyl ether	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: MW-4

Date Collected: 04/29/11 10:45

Date Received: 04/30/11 10:50

## Lab Sample ID: 680-67898-2

Matrix: Water

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	0.96	U	0.96	0.19	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 14:27	1
p-Phenylenediamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 14:27	1
Pronamide	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
Pyrene	0.19	U	0.19	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/06/11 14:51	06/02/11 14:27	1
Safrole, Total	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 14:27	1
Sulfonepp	0.96	U	0.96	0.13	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,2,4,5-Tetrachlorobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,3,4,6-Tetrachlorophenol	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
Thionazin	0.96	U	0.96	0.19	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,2,4-Trichlorobenzene	0.96	U	0.96	0.096	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,4,5-Trichlorophenol	0.96	U	0.96	0.11	ug/L		05/06/11 14:51	06/02/11 14:27	1
2,4,6-Trichlorophenol	0.96	U	0.96	0.16	ug/L		05/06/11 14:51	06/02/11 14:27	1
1,3,5-Trinitrobenzene	0.96	U	0.96	0.48	ug/L		05/06/11 14:51	06/02/11 14:27	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown Organic Acid	7.9	T J	ug/L		6.24		05/06/11 14:51	06/02/11 14:27	1
Unknown	11	T J	ug/L		6.59		05/06/11 14:51	06/02/11 14:27	1
Unknown	17	T J	ug/L		6.63		05/06/11 14:51	06/02/11 14:27	1
Unknown	28	T J	ug/L		6.84		05/06/11 14:51	06/02/11 14:27	1
Unknown	17	T J	ug/L		6.87		05/06/11 14:51	06/02/11 14:27	1
Unknown	110	T J	ug/L		7.12		05/06/11 14:51	06/02/11 14:27	1
Unknown	14	T J	ug/L		8.52		05/06/11 14:51	06/02/11 14:27	1
Unknown	15	T J	ug/L		8.55		05/06/11 14:51	06/02/11 14:27	1
Unknown	91	T J	ug/L		8.69		05/06/11 14:51	06/02/11 14:27	1
Unknown	38	T J	ug/L		10.09		05/06/11 14:51	06/02/11 14:27	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	60		34 - 130	05/06/11 14:51	06/02/11 14:27	1
2-Fluorophenol	53		25 - 130	05/06/11 14:51	06/02/11 14:27	1
Nitrobenzene-d5	55		32 - 130	05/06/11 14:51	06/02/11 14:27	1
Phenol-d5	29		27 - 130	05/06/11 14:51	06/02/11 14:27	1
Terphenyl-d14	67		36 - 130	05/06/11 14:51	06/02/11 14:27	1
2,4,6-Tribromophenol	75		30 - 130	05/06/11 14:51	06/02/11 14:27	1

### Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L		05/12/11 01:53		1
Ethanol	1000	U	1000	330	ug/L		05/13/11 00:46		1
Isopropanol	1000	U	1000	300	ug/L		05/13/11 00:46		1
<b>Methanol</b>	<b>5100</b>		1000	830	ug/L		05/13/11 00:46		1

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>120</b>		100	50	ug/L		05/05/11 11:21	05/11/11 14:06	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:06	1
<b>Arsenic</b>	<b>3.8</b>		2.5	1.3	ug/L		05/05/11 11:21	05/11/11 14:06	1
<b>Barium</b>	<b>760</b>		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 14:06	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 14:06	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: MW-4

## Lab Sample ID: 680-67898-2

Matrix: Water

Date Collected: 04/29/11 10:45

Date Received: 04/30/11 10:50

### Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 14:06	1
Calcium	110000		500	170	ug/L		05/05/11 11:21	05/11/11 14:06	1
Chromium	4.1	J	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 14:06	1
Cobalt	9.5		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 14:06	1
Copper	3.7	J	5.0	1.1	ug/L		05/05/11 11:21	05/11/11 14:06	1
Iron	61000		100	44	ug/L		05/05/11 11:21	05/11/11 14:06	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 14:06	1
Magnesium	36000		250	100	ug/L		05/05/11 11:21	05/11/11 14:06	1
Manganese	2300		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:06	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 14:06	1
Nickel	4.3	J	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:06	1
Potassium	6300	B	1000	330	ug/L		05/05/11 11:21	05/11/11 14:06	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 14:06	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 14:06	1
Sodium	470000		1000	340	ug/L		05/05/11 11:21	05/11/11 07:07	2
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 14:06	1
Vanadium	4.3	J	10	3.2	ug/L		05/05/11 11:21	05/11/11 14:06	1
Zinc	9.4	J	20	8.4	ug/L		05/05/11 11:21	05/11/11 14:06	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	540000		10000	1800	ug/L			05/21/11 12:46	10
Nitrogen, Kjeldahl	7500		400	300	ug/L		05/17/11 10:30	05/18/11 17:37	2
Nitrate as N	50	U	50	10	ug/L			04/30/11 22:18	1
Nitrite as N	12	J	50	10	ug/L			04/30/11 22:18	1
Sulfate	50000	U	50000	25000	ug/L			05/23/11 12:38	10
Total Organic Carbon	32000		1000	500	ug/L			05/17/11 18:41	1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 680-67898-3

Matrix: Water

Date Collected: 04/29/11 11:40

Date Received: 04/30/11 10:50

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 14:28	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 14:28	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 14:28	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 14:28	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 14:28	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 14:28	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 14:28	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 14:28	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 14:28	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 14:28	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 14:28	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 14:28	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 14:28	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 14:28	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 14:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 14:28	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 14:28	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 14:28	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 14:28	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 14:28	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 14:28	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 14:28	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 14:28	1
Diethyl ether	10	U	10	1.0	ug/L			05/04/11 14:28	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 14:28	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 14:28	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 14:28	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 14:28	1
Isobutyl alcohol	40	U	40	11	ug/L			05/04/11 14:28	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 14:28	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 14:28	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 14:28	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 14:28	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 14:28	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 14:28	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 14:28	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 14:28	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 14:28	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 14:28	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/04/11 14:28	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 14:28	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 14:28	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 14:28	1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 680-67898-3

Matrix: Water

Date Collected: 04/29/11 11:40

Date Received: 04/30/11 10:50

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 14:28	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 14:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 14:28	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 14:28	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 14:28	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 14:28	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 14:28	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 14:28	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:28	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 14:28	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 14:28	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 14:28	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 14:28	1

### Tentatively Identified Compound

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	None		ug/L					05/04/11 14:28	1

### Surrogate

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		70 - 130		05/04/11 14:28	1
Dibromofluoromethane	103		70 - 130		05/04/11 14:28	1
Toluene-d8 (Surr)	101		70 - 130		05/04/11 14:28	1

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Acenaphthylene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
<b>Acetophenone</b>	<b>0.36</b>	<b>J B</b>	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Acetylaminofluorene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
alpha,alpha-Dimethyl phenethylamine	10	U	10	3.4	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Aminobiphenyl	5.0	U	5.0	0.31	ug/L		05/06/11 14:51	06/02/11 15:23	1
Aniline	2.0	U	2.0	0.97	ug/L		05/06/11 14:51	06/02/11 15:23	1
Anthracene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Aramite, Total	1.5	U	1.5	0.11	ug/L		05/06/11 14:51	06/02/11 15:23	1
Benzo[a]anthracene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Benzo[a]pyrene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Benzo[b]fluoranthene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Benzo[k]fluoranthene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Benzyl alcohol	1.0	U	1.0	0.14	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,1'-Biphenyl	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.64	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Bromophenyl phenyl ether	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
Butyl benzyl phthalate	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Chloroaniline	2.0	U	2.0	0.36	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Chloro-3-methylphenol	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Chloronaphthalene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Chlorophenol	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Chlorophenyl phenyl ether	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Chrysene	0.20	U	0.20	0.045	ug/L		05/06/11 14:51	06/02/11 15:23	1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 680-67898-3

Matrix: Water

Date Collected: 04/29/11 11:40

Date Received: 04/30/11 10:50

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Dibenzofuran	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,2-Dichlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,3-Dichlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
<b>1,4-Dichlorobenzene</b>	<b>0.70</b>	<b>J B</b>	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
3,3'-Dichlorobenzidine	20	U	20	2.0	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,4-Dichlorophenol	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,6-Dichlorophenol	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Diethyl phthalate	1.0	U	1.0	0.11	ug/L		05/06/11 14:51	06/02/11 15:23	1
Dimethoate	2.0	U	2.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	0.20	ug/L		05/06/11 14:51	06/02/11 15:23	1
3,3'-Dimethylbenzidine	20	U	20	5.0	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,4-Dimethylphenol	2.0	U	2.0	0.69	ug/L		05/06/11 14:51	06/02/11 15:23	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Di-n-butyl phthalate	1.0	U	1.0	0.39	ug/L		05/06/11 14:51	06/02/11 15:23	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.13	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,4-Dinitrophenol	10	U	10	1.1	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,4-Dinitrotoluene	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,6-Dinitrotoluene	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 15:23	1
Di-n-octyl phthalate	1.0	U	1.0	0.17	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,4-Dioxane	2.0	U	2.0	0.31	ug/L		05/06/11 14:51	06/02/11 15:23	1
Disulfoton	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Ethyl methanesulfonate	2.0	U	2.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Ethyl Parathion	2.0	U	2.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Famphur	1.0	U *	1.0	0.16	ug/L		05/06/11 14:51	06/02/11 15:23	1
Fluoranthene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Fluorene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Hexachlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Hexachlorobutadiene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Hexachlorocyclopentadiene	2.0	U	2.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1
Hexachloroethane	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1
Hexachlorophene	500	U *	500	25	ug/L		05/06/11 14:51	06/02/11 15:23	1
Hexachloropropene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Isophorone	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Isosafrole	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
m-Dinitrobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Methapyrilene	200	U	200	1.3	ug/L		05/06/11 14:51	06/02/11 15:23	1
3-Methylcholanthrene	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1
Methyl methanesulfonate	2.0	U	2.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Methylnaphthalene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Methyl parathion	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Methylphenol	2.0	U	2.0	0.74	ug/L		05/06/11 14:51	06/02/11 15:23	1
3 & 4 Methylphenol	2.0	U	2.0	0.66	ug/L		05/06/11 14:51	06/02/11 15:23	1
1-Naphthalenamine	5.0	U	5.0	1.3	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Naphthalenamine	5.0	U	5.0	1.3	ug/L		05/06/11 14:51	06/02/11 15:23	1
Naphthalene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,4-Naphthoquinone	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Nitroaniline	1.0	U	1.0	0.16	ug/L		05/06/11 14:51	06/02/11 15:23	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 680-67898-3

Matrix: Water

Date Collected: 04/29/11 11:40

Date Received: 04/30/11 10:50

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	5.0	U	5.0	0.16	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Nitroaniline	5.0	U	5.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1
Nitrobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
5-Nitro-o-toluidine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Nitrophenol	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Nitrophenol	5.0	U	5.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1
4-Nitroquinoline-1-oxide	2.0	U	2.0	1.1	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosodiethylamine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosodimethylamine	1.0	U	1.0	0.25	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosodi-n-butylamine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.37	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosomethylethylamine	2.0	U	2.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosomorpholine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosopiperidine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
N-Nitrosopyrrolidine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
o,o',o"-Triethylphosphorothioate	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 15:23	1
o-Toluidine	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,2'-oxybis[1-chloropropane]	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
p-Dimethylamino azobenzene	5.0	U	5.0	0.15	ug/L		05/06/11 14:51	06/02/11 15:23	1
Pentachlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Pentachloronitrobenzene	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1
Pentachlorophenol	5.0	U	5.0	0.40	ug/L		05/06/11 14:51	06/02/11 15:23	1
Phenacetin	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Phenanthrene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Phenol	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 15:23	1
Phenyl ether	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Phorate	1.0	U	1.0	0.20	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-Picoline	2.0	U	2.0	0.15	ug/L		05/06/11 14:51	06/02/11 15:23	1
p-Phenylenediamine	200	U	200	16	ug/L		05/06/11 14:51	06/02/11 15:23	1
Pronamide	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
Pyrene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Pyridine	5.0	U	5.0	0.73	ug/L		05/06/11 14:51	06/02/11 15:23	1
Safrole, Total	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2-sec-Butyl-4,6-dinitrophenol	2.0	U	2.0	0.15	ug/L		05/06/11 14:51	06/02/11 15:23	1
Sulfotep	1.0	U	1.0	0.14	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,2,4,5-Tetrachlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,3,4,6-Tetrachlorophenol	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
Thionazin	1.0	U	1.0	0.20	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,4,5-Trichlorophenol	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 15:23	1
2,4,6-Trichlorophenol	1.0	U	1.0	0.17	ug/L		05/06/11 14:51	06/02/11 15:23	1
1,3,5-Trinitrobenzene	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 15:23	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown Aldol Condensate	6.3	T A J	ug/L		2.88		05/06/11 14:51	06/02/11 15:23	1
Unknown	3.0	T J	ug/L		4.08		05/06/11 14:51	06/02/11 15:23	1
Maneb	4.9	T J N	ug/L		10.98	12427-38-2	05/06/11 14:51	06/02/11 15:23	1
Unknown	4.0	T J	ug/L		11.24		05/06/11 14:51	06/02/11 15:23	1
Unknown	13	T J	ug/L		11.43		05/06/11 14:51	06/02/11 15:23	1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 680-67898-3

Matrix: Water

Date Collected: 04/29/11 11:40

Date Received: 04/30/11 10:50

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Octadecanoic acid, 2-methylpropyl ester	10	T J N	ug/L		12.29	646-13-9	05/06/11 14:51	06/02/11 15:23	1
Tridecane, 7-hexyl-	2.6	T J N	ug/L		12.33	7225-66-3	05/06/11 14:51	06/02/11 15:23	1
Unknown	2.6	T J	ug/L		12.50		05/06/11 14:51	06/02/11 15:23	1
2-Methyloctadecane	2.8	T J N	ug/L		13.11	0-00-0	05/06/11 14:51	06/02/11 15:23	1
Unknown	3.9	T J	ug/L		15.87		05/06/11 14:51	06/02/11 15:23	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	41		34 - 130				05/06/11 14:51	06/02/11 15:23	1
2-Fluorophenol	60		25 - 130				05/06/11 14:51	06/02/11 15:23	1
Nitrobenzene-d5	41		32 - 130				05/06/11 14:51	06/02/11 15:23	1
Phenol-d5	49		27 - 130				05/06/11 14:51	06/02/11 15:23	1
Terphenyl-d14	51		36 - 130				05/06/11 14:51	06/02/11 15:23	1
2,4,6-Tribromophenol	51		30 - 130				05/06/11 14:51	06/02/11 15:23	1

### Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/12/11 03:05	1
Ethanol	1000	U	1000	330	ug/L			05/13/11 01:58	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 01:58	1
Methanol	1000	U	1000	830	ug/L			05/13/11 01:58	1

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	50	ug/L		05/05/11 11:21	05/11/11 07:28	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:28	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/05/11 11:21	05/11/11 07:28	1
Barium	5.0	U	5.0	1.4	ug/L		05/05/11 11:21	05/11/11 07:28	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 07:28	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 07:28	1
Calcium	500	U	500	170	ug/L		05/05/11 11:21	05/11/11 07:28	1
Chromium	5.0	U	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 07:28	1
Cobalt	0.50	U	0.50	0.12	ug/L		05/05/11 11:21	05/11/11 07:28	1
Copper	5.0	U	5.0	1.1	ug/L		05/05/11 11:21	05/11/11 07:28	1
Iron	52	J	100	44	ug/L		05/05/11 11:21	05/11/11 07:28	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 07:28	1
Magnesium	250	U	250	100	ug/L		05/05/11 11:21	05/11/11 07:28	1
Manganese	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:28	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 07:28	1
Nickel	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:28	1
Potassium	350	J B	1000	330	ug/L		05/05/11 11:21	05/11/11 07:28	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 07:28	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 07:28	1
Sodium	380	J	500	170	ug/L		05/05/11 11:21	05/11/11 07:28	1
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 07:28	1
Vanadium	10	U	10	3.2	ug/L		05/05/11 11:21	05/11/11 07:28	1
Zinc	20	U	20	8.4	ug/L		05/05/11 11:21	05/11/11 07:28	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000	U	1000	180	ug/L			05/21/11 12:21	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 680-67898-3

Matrix: Water

Date Collected: 04/29/11 11:40

Date Received: 04/30/11 10:50

### General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	200	U	200	150	ug/L		05/17/11 10:30	05/18/11 15:54	1
Nitrate as N	50	U	50	10	ug/L		04/30/11 22:22		1
Nitrite as N	50	U	50	10	ug/L		04/30/11 22:22		1
Sulfate	5000	U	5000	2500	ug/L		05/23/11 11:17		1
Total Organic Carbon	1000	U	1000	500	ug/L		05/17/11 19:37		1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-4U**

**Lab Sample ID: 680-67898-4**

Date Collected: 04/29/11 12:35

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>13</b>	<b>J</b>	25	5.0	ug/L			05/06/11 03:26	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 03:26	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 03:26	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 03:26	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 03:26	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 03:26	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 03:26	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 03:26	1
2-Butanone	10	U	10	1.0	ug/L			05/06/11 03:26	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 03:26	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 03:26	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 03:26	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 03:26	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 03:26	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 03:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 03:26	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 03:26	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 03:26	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 03:26	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 03:26	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 03:26	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/06/11 03:26	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 03:26	1
<b>Diethyl ether</b>	<b>1800</b>	<b>E</b>	10	1.0	ug/L			05/06/11 03:26	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 03:26	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 03:26	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 03:26	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/06/11 03:26	1
Isobutyl alcohol	40	U	40	11	ug/L			05/06/11 03:26	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 03:26	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 03:26	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 03:26	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 03:26	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 03:26	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 03:26	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 03:26	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 03:26	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 03:26	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 03:26	1
<b>t-Butanol</b>	<b>3800</b>	<b>E</b>	5.0	2.6	ug/L			05/06/11 03:26	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 03:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 03:26	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 03:26	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-4U**

**Lab Sample ID: 680-67898-4**

Date Collected: 04/29/11 12:35

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 03:26	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 03:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 03:26	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 03:26	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 03:26	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 03:26	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 03:26	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 03:26	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:26	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 03:26	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 03:26	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 03:26	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 03:26	1
<b>Tentatively Identified Compound</b>	<b>Est. Result</b>	<b>Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>RT</b>	<b>CAS No.</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tentatively Identified Compound	None		ug/L					05/06/11 03:26	1
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	93		70 - 130					05/06/11 03:26	1
Dibromofluoromethane	102		70 - 130					05/06/11 03:26	1
Toluene-d8 (Surr)	102		70 - 130					05/06/11 03:26	1

## Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2500	U	2500	500	ug/L			05/06/11 13:19	100
Acetonitrile	4000	U	4000	1000	ug/L			05/06/11 13:19	100
Acrolein	2000	U	2000	740	ug/L			05/06/11 13:19	100
Acrylonitrile	2000	U	2000	720	ug/L			05/06/11 13:19	100
Allyl chloride	100	U	100	20	ug/L			05/06/11 13:19	100
Benzene	100	U	100	25	ug/L			05/06/11 13:19	100
Benzyl chloride	100	U	100	100	ug/L			05/06/11 13:19	100
Bromodichloromethane	100	U	100	25	ug/L			05/06/11 13:19	100
Bromoform	100	U	100	50	ug/L			05/06/11 13:19	100
Bromomethane	100	U	100	80	ug/L			05/06/11 13:19	100
2-Butanone	1000	U	1000	100	ug/L			05/06/11 13:19	100
Carbon disulfide	200	U	200	60	ug/L			05/06/11 13:19	100
Carbon tetrachloride	100	U	100	50	ug/L			05/06/11 13:19	100
Chlorobenzene	100	U	100	25	ug/L			05/06/11 13:19	100
Chloroethane	100	U	100	100	ug/L			05/06/11 13:19	100
Chloroform	100	U	100	14	ug/L			05/06/11 13:19	100
Chloromethane	100	U	100	33	ug/L			05/06/11 13:19	100
Chloroprene	100	U	100	30	ug/L			05/06/11 13:19	100
cis-1,2-Dichloroethene	100	U	100	15	ug/L			05/06/11 13:19	100
cis-1,3-Dichloropropene	100	U	100	11	ug/L			05/06/11 13:19	100
Dibromochloromethane	100	U	100	10	ug/L			05/06/11 13:19	100
1,2-Dibromo-3-Chloropropane	100	U	100	44	ug/L			05/06/11 13:19	100
1,2-Dibromoethane	100	U	100	25	ug/L			05/06/11 13:19	100
Dibromomethane	100	U	100	20	ug/L			05/06/11 13:19	100
Dichlorodifluoromethane	100	U	100	25	ug/L			05/06/11 13:19	100
1,1-Dichloroethane	100	U	100	25	ug/L			05/06/11 13:19	100
1,2-Dichloroethane	100	U	100	10	ug/L			05/06/11 13:19	100

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-4U**

**Lab Sample ID: 680-67898-4**

Date Collected: 04/29/11 12:35

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	100	U	100	11	ug/L			05/06/11 13:19	100
1,2-Dichloropropane	100	U	100	13	ug/L			05/06/11 13:19	100
<b>Diethyl ether</b>	<b>1700</b>	<b>D</b>	1000	100	ug/L			05/06/11 13:19	100
Ethylbenzene	100	U	100	11	ug/L			05/06/11 13:19	100
Ethylene oxide	20000	U	20000	20000	ug/L			05/06/11 13:19	100
Ethyl methacrylate	100	U	100	25	ug/L			05/06/11 13:19	100
2-Hexanone	1000	U	1000	100	ug/L			05/06/11 13:19	100
Iodomethane	500	U	500	100	ug/L			05/06/11 13:19	100
Isobutyl alcohol	4000	U	4000	1100	ug/L			05/06/11 13:19	100
Methacrylonitrile	2000	U	2000	330	ug/L			05/06/11 13:19	100
Methylene Chloride	500	U	500	100	ug/L			05/06/11 13:19	100
Methyl methacrylate	100	U	100	48	ug/L			05/06/11 13:19	100
4-Methyl-2-pentanone (MIBK)	1000	U	1000	100	ug/L			05/06/11 13:19	100
Methyl tert-butyl ether	1000	U	1000	20	ug/L			05/06/11 13:19	100
n-Heptane	100	U	100	42	ug/L			05/06/11 13:19	100
Pentachloroethane	500	U	500	120	ug/L			05/06/11 13:19	100
Propionitrile	2000	U	2000	460	ug/L			05/06/11 13:19	100
Propylene oxide	20000	U	20000	20000	ug/L			05/06/11 13:19	100
Styrene	100	U	100	11	ug/L			05/06/11 13:19	100
<b>t-Butanol</b>	<b>3400</b>	<b>D</b>	500	260	ug/L			05/06/11 13:19	100
1,1,1,2-Tetrachloroethane	100	U	100	33	ug/L			05/06/11 13:19	100
1,1,2,2-Tetrachloroethane	100	U	100	18	ug/L			05/06/11 13:19	100
Tetrachloroethene	100	U	100	15	ug/L			05/06/11 13:19	100
Toluene	100	U	100	33	ug/L			05/06/11 13:19	100
trans-1,4-Dichloro-2-butene	200	U	200	50	ug/L			05/06/11 13:19	100
trans-1,2-Dichloroethene	100	U	100	20	ug/L			05/06/11 13:19	100
trans-1,3-Dichloropropene	100	U	100	21	ug/L			05/06/11 13:19	100
1,2,3-Trichlorobenzene	100	U	100	35	ug/L			05/06/11 13:19	100
1,1,1-Trichloroethane	100	U	100	50	ug/L			05/06/11 13:19	100
1,1,2-Trichloroethane	100	U	100	13	ug/L			05/06/11 13:19	100
Trichloroethylene	100	U	100	13	ug/L			05/06/11 13:19	100
Trichlorofluoromethane	100	U	100	25	ug/L			05/06/11 13:19	100
1,2,3-Trichloropropane	100	U	100	41	ug/L			05/06/11 13:19	100
Vinyl acetate	200	U	200	28	ug/L			05/06/11 13:19	100
Vinyl chloride	100	U	100	18	ug/L			05/06/11 13:19	100
Xylenes, Total	200	U	200	20	ug/L			05/06/11 13:19	100

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					05/06/11 13:19	100

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		70 - 130			100
Dibromofluoromethane	102		70 - 130			100
Toluene-d8 (Surf)	105		70 - 130			100

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-4U**

**Lab Sample ID: 680-67898-4**

Date Collected: 04/29/11 12:35

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/06/11 14:51	06/02/11 14:55	1
Aniline	1.9	U	1.9	0.93	ug/L		05/06/11 14:51	06/02/11 14:55	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/06/11 14:51	06/02/11 14:55	1
Diallate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
<b>1,4-Dichlorobenzene</b>	<b>0.40</b>	<b>J B</b>	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Diethyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 14:55	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,4-Dimethylphenol	1.9	U	1.9	0.66	ug/L		05/06/11 14:51	06/02/11 14:55	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/06/11 14:51	06/02/11 14:55	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,4-Dinitrophenol	9.5	U	9.5	1.1	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 14:55	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 14:55	1
<b>1,4-Dioxane</b>	<b>5.1</b>		1.9	0.30	ug/L		05/06/11 14:51	06/02/11 14:55	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Famphur	0.95	U *	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 14:55	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-4U**

**Lab Sample ID: 680-67898-4**

Date Collected: 04/29/11 12:35

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1
Hexachlorophene	480	U *	480	24	ug/L		05/06/11 14:51	06/02/11 14:55	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 14:55	1
3-Methylcholanthrene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/06/11 14:51	06/02/11 14:55	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 14:55	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 14:55	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,4-Naphthoquinone	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 14:55	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.1	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
o,o',o"-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 14:55	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/06/11 14:51	06/02/11 14:55	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Pentachloronitrobenzene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/06/11 14:51	06/02/11 14:55	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Phenol	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 14:55	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-4U**

**Lab Sample ID: 680-67898-4**

Date Collected: 04/29/11 12:35

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 14:55	1
p-Phenylenediamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 14:55	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/06/11 14:51	06/02/11 14:55	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 14:55	1
Sulfonepp	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 14:55	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 14:55	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 14:55	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown Organic Acid	16	T J	ug/L		6.63		05/06/11 14:51	06/02/11 14:55	1
Unknown	18	T J	ug/L		6.84		05/06/11 14:51	06/02/11 14:55	1
Unknown	19	T J	ug/L		6.88		05/06/11 14:51	06/02/11 14:55	1
Unknown	67	T J	ug/L		7.12		05/06/11 14:51	06/02/11 14:55	1
Unknown	58	T J	ug/L		8.69		05/06/11 14:51	06/02/11 14:55	1
Unknown	11	T J	ug/L		8.77		05/06/11 14:51	06/02/11 14:55	1
Unknown	10	T J	ug/L		9.22		05/06/11 14:51	06/02/11 14:55	1
Unknown	36	T J	ug/L		10.09		05/06/11 14:51	06/02/11 14:55	1
Unknown	7.9	T J	ug/L		10.25		05/06/11 14:51	06/02/11 14:55	1
Unknown	10	T J	ug/L		11.35		05/06/11 14:51	06/02/11 14:55	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	52		34 - 130	05/06/11 14:51	06/02/11 14:55	1
2-Fluorophenol	51		25 - 130	05/06/11 14:51	06/02/11 14:55	1
Nitrobenzene-d5	47		32 - 130	05/06/11 14:51	06/02/11 14:55	1
Phenol-d5	33		27 - 130	05/06/11 14:51	06/02/11 14:55	1
Terphenyl-d14	60		36 - 130	05/06/11 14:51	06/02/11 14:55	1
2,4,6-Tribromophenol	61		30 - 130	05/06/11 14:51	06/02/11 14:55	1

## Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L		05/12/11 03:29		1
Ethanol	1000	U	1000	330	ug/L		05/13/11 02:22		1
Isopropanol	1000	U	1000	300	ug/L		05/13/11 02:22		1
Methanol	1000	U	1000	830	ug/L		05/13/11 02:22		1

## Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	800		100	50	ug/L		05/05/11 11:21	05/11/11 14:27	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:27	1
Arsenic	4.7		2.5	1.3	ug/L		05/05/11 11:21	05/11/11 14:27	1
Barium	810		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 14:27	1
Beryllium	0.56		0.50	0.15	ug/L		05/05/11 11:21	05/11/11 14:27	1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-4U**

**Lab Sample ID: 680-67898-4**

Date Collected: 04/29/11 12:35

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 14:27	1
Calcium	100000		500	170	ug/L		05/05/11 11:21	05/11/11 14:27	1
Chromium	11		5.0	2.5	ug/L		05/05/11 11:21	05/11/11 14:27	1
Cobalt	31		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 14:27	1
Copper	6.1		5.0	1.1	ug/L		05/05/11 11:21	05/11/11 14:27	1
Iron	96000		100	44	ug/L		05/05/11 11:21	05/11/11 14:27	1
Lead	0.86	J	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 14:27	1
Magnesium	43000		250	100	ug/L		05/05/11 11:21	05/11/11 14:27	1
Manganese	1900		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:27	1
Mercury	0.58	J	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 14:27	1
Nickel	12		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:27	1
Potassium	10000	B	1000	330	ug/L		05/05/11 11:21	05/11/11 14:27	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 14:27	1
Silver	0.48	J	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 14:27	1
Sodium	510000		1000	340	ug/L		05/05/11 11:21	05/11/11 07:35	2
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 14:27	1
Vanadium	6.2	J	10	3.2	ug/L		05/05/11 11:21	05/11/11 14:27	1
Zinc	23		20	8.4	ug/L		05/05/11 11:21	05/11/11 14:27	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	650000		10000	1800	ug/L			05/21/11 12:46	10
Nitrogen, Kjeldahl	19000		1000	750	ug/L		05/17/11 10:30	05/18/11 17:14	5
Nitrate as N	50	U	50	10	ug/L			04/30/11 22:24	1
Nitrite as N	22	J	50	10	ug/L			04/30/11 22:24	1
Sulfate	5000	U	5000	2500	ug/L			05/23/11 11:17	1
Total Organic Carbon	36000		1000	500	ug/L			05/17/11 19:54	1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-9**

**Lab Sample ID: 680-67898-5**

Date Collected: 04/29/11 14:05

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/06/11 03:49	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 03:49	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 03:49	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 03:49	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 03:49	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 03:49	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 03:49	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:49	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 03:49	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 03:49	1
2-Butanone	10	U	10	1.0	ug/L			05/06/11 03:49	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 03:49	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 03:49	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 03:49	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 03:49	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 03:49	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 03:49	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 03:49	1
<b>cis-1,2-Dichloroethene</b>	<b>0.21</b>	<b>J</b>	1.0	0.15	ug/L			05/06/11 03:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 03:49	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 03:49	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 03:49	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:49	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 03:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:49	1
<b>1,1-Dichloroethane</b>	<b>0.83</b>	<b>J</b>	1.0	0.25	ug/L			05/06/11 03:49	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 03:49	1
<b>1,1-Dichloroethene</b>	<b>0.65</b>	<b>J</b>	1.0	0.11	ug/L			05/06/11 03:49	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 03:49	1
<b>Diethyl ether</b>	<b>2900</b>	<b>E</b>	10	1.0	ug/L			05/06/11 03:49	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 03:49	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 03:49	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 03:49	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 03:49	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/06/11 03:49	1
Isobutyl alcohol	40	U	40	11	ug/L			05/06/11 03:49	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 03:49	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 03:49	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 03:49	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 03:49	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 03:49	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 03:49	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 03:49	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 03:49	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 03:49	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 03:49	1
<b>t-Butanol</b>	<b>180</b>	<b>E</b>	5.0	2.6	ug/L			05/06/11 03:49	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 03:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 03:49	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 03:49	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: MW-9

## Lab Sample ID: 680-67898-5

Matrix: Water

Date Collected: 04/29/11 14:05

Date Received: 04/30/11 10:50

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 03:49	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 03:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 03:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 03:49	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 03:49	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 03:49	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 03:49	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 03:49	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 03:49	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 03:49	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 03:49	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 03:49	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 03:49	1
<b>Tentatively Identified Compound</b>	<b>Est. Result</b>	<b>Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>RT</b>	<b>CAS No.</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tentatively Identified Compound	None		ug/L					05/06/11 03:49	1
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	95		70 - 130					05/06/11 03:49	1
Dibromofluoromethane	101		70 - 130					05/06/11 03:49	1
Toluene-d8 (Surr)	103		70 - 130					05/06/11 03:49	1

### Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1200	U	1200	250	ug/L			05/06/11 13:47	50
Acetonitrile	2000	U	2000	500	ug/L			05/06/11 13:47	50
Acrolein	1000	U	1000	370	ug/L			05/06/11 13:47	50
Acrylonitrile	1000	U	1000	360	ug/L			05/06/11 13:47	50
Allyl chloride	50	U	50	10	ug/L			05/06/11 13:47	50
Benzene	50	U	50	12	ug/L			05/06/11 13:47	50
Benzyl chloride	50	U	50	50	ug/L			05/06/11 13:47	50
Bromodichloromethane	50	U	50	12	ug/L			05/06/11 13:47	50
Bromoform	50	U	50	25	ug/L			05/06/11 13:47	50
Bromomethane	50	U	50	40	ug/L			05/06/11 13:47	50
2-Butanone	500	U	500	50	ug/L			05/06/11 13:47	50
Carbon disulfide	100	U	100	30	ug/L			05/06/11 13:47	50
Carbon tetrachloride	50	U	50	25	ug/L			05/06/11 13:47	50
Chlorobenzene	50	U	50	12	ug/L			05/06/11 13:47	50
Chloroethane	50	U	50	50	ug/L			05/06/11 13:47	50
Chloroform	50	U	50	7.0	ug/L			05/06/11 13:47	50
Chloromethane	50	U	50	16	ug/L			05/06/11 13:47	50
Chloroprene	50	U	50	15	ug/L			05/06/11 13:47	50
cis-1,2-Dichloroethene	50	U	50	7.5	ug/L			05/06/11 13:47	50
cis-1,3-Dichloropropene	50	U	50	5.5	ug/L			05/06/11 13:47	50
Dibromochloromethane	50	U	50	5.0	ug/L			05/06/11 13:47	50
1,2-Dibromo-3-Chloropropane	50	U	50	22	ug/L			05/06/11 13:47	50
1,2-Dibromoethane	50	U	50	12	ug/L			05/06/11 13:47	50
Dibromomethane	50	U	50	10	ug/L			05/06/11 13:47	50
Dichlorodifluoromethane	50	U	50	12	ug/L			05/06/11 13:47	50
1,1-Dichloroethane	50	U	50	12	ug/L			05/06/11 13:47	50
1,2-Dichloroethane	50	U	50	5.0	ug/L			05/06/11 13:47	50

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-9**

**Lab Sample ID: 680-67898-5**

Date Collected: 04/29/11 14:05

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	50	U	50	5.5	ug/L			05/06/11 13:47	50
1,2-Dichloropropane	50	U	50	6.5	ug/L			05/06/11 13:47	50
<b>Diethyl ether</b>	<b>3300</b>	<b>D</b>	500	50	ug/L			05/06/11 13:47	50
Ethylbenzene	50	U	50	5.5	ug/L			05/06/11 13:47	50
Ethylene oxide	10000	U	10000	10000	ug/L			05/06/11 13:47	50
Ethyl methacrylate	50	U	50	12	ug/L			05/06/11 13:47	50
2-Hexanone	500	U	500	50	ug/L			05/06/11 13:47	50
Iodomethane	250	U	250	50	ug/L			05/06/11 13:47	50
Isobutyl alcohol	2000	U	2000	550	ug/L			05/06/11 13:47	50
Methacrylonitrile	1000	U	1000	160	ug/L			05/06/11 13:47	50
Methylene Chloride	250	U	250	50	ug/L			05/06/11 13:47	50
Methyl methacrylate	50	U	50	24	ug/L			05/06/11 13:47	50
4-Methyl-2-pentanone (MIBK)	500	U	500	50	ug/L			05/06/11 13:47	50
Methyl tert-butyl ether	500	U	500	10	ug/L			05/06/11 13:47	50
n-Heptane	50	U	50	21	ug/L			05/06/11 13:47	50
Pentachloroethane	250	U	250	60	ug/L			05/06/11 13:47	50
Propionitrile	1000	U	1000	230	ug/L			05/06/11 13:47	50
Propylene oxide	10000	U	10000	10000	ug/L			05/06/11 13:47	50
Styrene	50	U	50	5.5	ug/L			05/06/11 13:47	50
<b>t-Butanol</b>	<b>130</b>	<b>J D</b>	250	130	ug/L			05/06/11 13:47	50
1,1,1,2-Tetrachloroethane	50	U	50	16	ug/L			05/06/11 13:47	50
1,1,2,2-Tetrachloroethane	50	U	50	9.0	ug/L			05/06/11 13:47	50
Tetrachloroethene	50	U	50	7.5	ug/L			05/06/11 13:47	50
Toluene	50	U	50	16	ug/L			05/06/11 13:47	50
trans-1,4-Dichloro-2-butene	100	U	100	25	ug/L			05/06/11 13:47	50
trans-1,2-Dichloroethene	50	U	50	10	ug/L			05/06/11 13:47	50
trans-1,3-Dichloropropene	50	U	50	10	ug/L			05/06/11 13:47	50
1,2,3-Trichlorobenzene	50	U	50	18	ug/L			05/06/11 13:47	50
1,1,1-Trichloroethane	50	U	50	25	ug/L			05/06/11 13:47	50
1,1,2-Trichloroethane	50	U	50	6.5	ug/L			05/06/11 13:47	50
Trichloroethylene	50	U	50	6.5	ug/L			05/06/11 13:47	50
Trichlorofluoromethane	50	U	50	12	ug/L			05/06/11 13:47	50
1,2,3-Trichloropropane	50	U	50	20	ug/L			05/06/11 13:47	50
Vinyl acetate	100	U	100	14	ug/L			05/06/11 13:47	50
Vinyl chloride	50	U	50	9.0	ug/L			05/06/11 13:47	50
Xylenes, Total	100	U	100	10	ug/L			05/06/11 13:47	50

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					05/06/11 13:47	50

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		70 - 130		05/06/11 13:47	50
Dibromofluoromethane	99		70 - 130		05/06/11 13:47	50
Toluene-d8 (Surf)	104		70 - 130		05/06/11 13:47	50

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-9**

**Lab Sample ID: 680-67898-5**

Date Collected: 04/29/11 14:05

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Aminobiphenyl	4.7	U	4.7	0.29	ug/L		05/06/11 14:51	06/02/11 15:50	1
Aniline	1.9	U	1.9	0.92	ug/L		05/06/11 14:51	06/02/11 15:50	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/06/11 14:51	06/02/11 15:50	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/06/11 14:51	06/02/11 15:50	1
Diallate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
<b>1,4-Dichlorobenzene</b>	<b>0.30</b>	<b>J B</b>	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/06/11 14:51	06/02/11 15:50	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 15:50	1
3,3'-Dimethylbenzidine	19	U	19	4.7	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,4-Dimethylphenol	1.9	U	1.9	0.65	ug/L		05/06/11 14:51	06/02/11 15:50	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/06/11 14:51	06/02/11 15:50	1
4,6-Dinitro-2-methylphenol	4.7	U	4.7	0.12	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 15:50	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 15:50	1
<b>1,4-Dioxane</b>	<b>9.8</b>		1.9	0.29	ug/L		05/06/11 14:51	06/02/11 15:50	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Famphur	0.95	U *	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 15:50	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-9**

**Lab Sample ID: 680-67898-5**

Date Collected: 04/29/11 14:05

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1
Hexachloroethane	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1
Hexachlorophene	470	U *	470	24	ug/L		05/06/11 14:51	06/02/11 15:50	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 15:50	1
3-Methylcholanthrene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Methylphenol	1.9	U	1.9	0.70	ug/L		05/06/11 14:51	06/02/11 15:50	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 15:50	1
1-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 15:50	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,4-Naphthoquinone	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 15:50	1
3-Nitroaniline	4.7	U	4.7	0.15	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Nitroaniline	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Nitrophenol	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.0	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
o,o',o"-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 15:50	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
p-Dimethylamino azobenzene	4.7	U	4.7	0.14	ug/L		05/06/11 14:51	06/02/11 15:50	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Pentachloronitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1
Pentachlorophenol	4.7	U	4.7	0.38	ug/L		05/06/11 14:51	06/02/11 15:50	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Phenol	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 15:50	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: MW-9

## Lab Sample ID: 680-67898-5

Date Collected: 04/29/11 14:05

Matrix: Water

Date Received: 04/30/11 10:50

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 15:50	1
p-Phenylenediamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 15:50	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Pyridine	4.7	U	4.7	0.69	ug/L		05/06/11 14:51	06/02/11 15:50	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 15:50	1
Sulfoteppe	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 15:50	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 15:50	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 15:50	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown Aldol Condensate	8.1	T A J	ug/L		2.89		05/06/11 14:51	06/02/11 15:50	1
Unknown	5.8	T J	ug/L		5.01		05/06/11 14:51	06/02/11 15:50	1
Unknown	3.9	T J	ug/L		6.02		05/06/11 14:51	06/02/11 15:50	1
Unknown	6.4	T J	ug/L		6.09		05/06/11 14:51	06/02/11 15:50	1
Unknown	6.7	T J	ug/L		6.54		05/06/11 14:51	06/02/11 15:50	1
Unknown	140	T J	ug/L		7.11		05/06/11 14:51	06/02/11 15:50	1
Unknown Organic Acid	34	T J	ug/L		8.65		05/06/11 14:51	06/02/11 15:50	1
Unknown	3.1	T J	ug/L		9.20		05/06/11 14:51	06/02/11 15:50	1
Unknown	8.1	T J	ug/L		10.07		05/06/11 14:51	06/02/11 15:50	1
Sulfur	6.3	T J N	ug/L		10.98	7704-34-9	05/06/11 14:51	06/02/11 15:50	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		34 - 130		06/02/11 15:50	1
2-Fluorophenol	48		25 - 130		06/02/11 15:50	1
Nitrobenzene-d5	45		32 - 130		06/02/11 15:50	1
Phenol-d5	40		27 - 130		06/02/11 15:50	1
Terphenyl-d14	61		36 - 130		06/02/11 15:50	1
2,4,6-Tribromophenol	66		30 - 130		06/02/11 15:50	1

### Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L		05/12/11 03:53		1
Ethanol	1000	U	1000	330	ug/L		05/13/11 02:46		1
Isopropanol	1000	U	1000	300	ug/L		05/13/11 02:46		1
Methanol	1000	U	1000	830	ug/L		05/13/11 02:46		1

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1500		100	50	ug/L		05/05/11 11:21	05/11/11 07:42	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:42	1
Arsenic	4.0		2.5	1.3	ug/L		05/05/11 11:21	05/11/11 07:42	1
Barium	92		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 07:42	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 07:42	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: MW-9

## Lab Sample ID: 680-67898-5

Matrix: Water

Date Collected: 04/29/11 14:05

Date Received: 04/30/11 10:50

### Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 07:42	1
Calcium	230000		500	170	ug/L		05/05/11 11:21	05/11/11 07:42	1
Chromium	8.9		5.0	2.5	ug/L		05/05/11 11:21	05/11/11 07:42	1
Cobalt	2.6		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 07:42	1
Copper	3.1 J		5.0	1.1	ug/L		05/05/11 11:21	05/11/11 07:42	1
Iron	110000		100	44	ug/L		05/05/11 11:21	05/11/11 07:42	1
Lead	1.1 J		1.5	0.50	ug/L		05/05/11 11:21	05/11/11 07:42	1
Magnesium	62000		250	100	ug/L		05/05/11 11:21	05/11/11 07:42	1
Manganese	2800		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:42	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 07:42	1
Nickel	6.4		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 07:42	1
Potassium	7600 B		1000	330	ug/L		05/05/11 11:21	05/11/11 07:42	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 07:42	1
Silver	0.42 J		1.0	0.18	ug/L		05/05/11 11:21	05/11/11 07:42	1
Sodium	340000		500	170	ug/L		05/05/11 11:21	05/11/11 07:42	1
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 07:42	1
Vanadium	5.7 J		10	3.2	ug/L		05/05/11 11:21	05/11/11 07:42	1
Zinc	14 J		20	8.4	ug/L		05/05/11 11:21	05/11/11 07:42	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	570000		10000	1800	ug/L			05/21/11 12:46	10
Nitrogen, Kjeldahl	1600		200	150	ug/L		05/17/11 10:30	05/18/11 15:27	1
Nitrate as N	50 U		50	10	ug/L			04/30/11 22:25	1
Nitrite as N	12 J		50	10	ug/L			04/30/11 22:25	1
Sulfate	650000		250000	120000	ug/L			05/23/11 12:42	50
Total Organic Carbon	6900		1000	500	ug/L			05/17/11 20:50	1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: MW-5

Date Collected: 04/29/11 11:40

Date Received: 04/30/11 10:50

## Lab Sample ID: 680-67898-6

Matrix: Water

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/06/11 04:12	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 04:12	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 04:12	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 04:12	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 04:12	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 04:12	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 04:12	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 04:12	1
2-Butanone	10	U	10	1.0	ug/L			05/06/11 04:12	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 04:12	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 04:12	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 04:12	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 04:12	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 04:12	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 04:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 04:12	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 04:12	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 04:12	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 04:12	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 04:12	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 04:12	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/06/11 04:12	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 04:12	1
<b>Diethyl ether</b>	<b>220</b>	<b>E</b>	10	1.0	ug/L			05/06/11 04:12	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 04:12	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 04:12	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 04:12	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/06/11 04:12	1
Isobutyl alcohol	40	U	40	11	ug/L			05/06/11 04:12	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 04:12	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 04:12	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 04:12	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 04:12	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 04:12	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 04:12	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 04:12	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 04:12	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 04:12	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 04:12	1
<b>t-Butanol</b>	<b>170</b>	<b>E</b>	5.0	2.6	ug/L			05/06/11 04:12	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 04:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 04:12	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 04:12	1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: MW-5

## Lab Sample ID: 680-67898-6

Matrix: Water

Date Collected: 04/29/11 11:40

Date Received: 04/30/11 10:50

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 04:12	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 04:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 04:12	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 04:12	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 04:12	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 04:12	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 04:12	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 04:12	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:12	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 04:12	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 04:12	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 04:12	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 04:12	1
<b>Tentatively Identified Compound</b>	<b>Est. Result</b>	<b>Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>RT</b>	<b>CAS No.</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tentatively Identified Compound	None		ug/L					05/06/11 04:12	1
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	95		70 - 130					05/06/11 04:12	1
Dibromofluoromethane	103		70 - 130					05/06/11 04:12	1
Toluene-d8 (Surr)	101		70 - 130					05/06/11 04:12	1

### Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	120	U	120	25	ug/L			05/06/11 14:16	5
Acetonitrile	200	U	200	50	ug/L			05/06/11 14:16	5
Acrolein	100	U	100	37	ug/L			05/06/11 14:16	5
Acrylonitrile	100	U	100	36	ug/L			05/06/11 14:16	5
Allyl chloride	5.0	U	5.0	1.0	ug/L			05/06/11 14:16	5
Benzene	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
Benzyl chloride	5.0	U	5.0	5.0	ug/L			05/06/11 14:16	5
Bromodichloromethane	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
Bromoform	5.0	U	5.0	2.5	ug/L			05/06/11 14:16	5
Bromomethane	5.0	U	5.0	4.0	ug/L			05/06/11 14:16	5
2-Butanone	50	U	50	5.0	ug/L			05/06/11 14:16	5
Carbon disulfide	10	U	10	3.0	ug/L			05/06/11 14:16	5
Carbon tetrachloride	5.0	U	5.0	2.5	ug/L			05/06/11 14:16	5
Chlorobenzene	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
Chloroethane	5.0	U	5.0	5.0	ug/L			05/06/11 14:16	5
Chloroform	5.0	U	5.0	0.70	ug/L			05/06/11 14:16	5
Chloromethane	5.0	U	5.0	1.6	ug/L			05/06/11 14:16	5
Chloroprene	5.0	U	5.0	1.5	ug/L			05/06/11 14:16	5
cis-1,2-Dichloroethene	5.0	U	5.0	0.75	ug/L			05/06/11 14:16	5
cis-1,3-Dichloropropene	5.0	U	5.0	0.55	ug/L			05/06/11 14:16	5
Dibromochloromethane	5.0	U	5.0	0.50	ug/L			05/06/11 14:16	5
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.2	ug/L			05/06/11 14:16	5
1,2-Dibromoethane	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
Dibromomethane	5.0	U	5.0	1.0	ug/L			05/06/11 14:16	5
Dichlorodifluoromethane	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
1,1-Dichloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
1,2-Dichloroethane	5.0	U	5.0	0.50	ug/L			05/06/11 14:16	5

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-5**

**Lab Sample ID: 680-67898-6**

Date Collected: 04/29/11 11:40

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	5.0	U	5.0	0.55	ug/L			05/06/11 14:16	5
1,2-Dichloropropane	5.0	U	5.0	0.65	ug/L			05/06/11 14:16	5
<b>Diethyl ether</b>	<b>200</b>	<b>D</b>	50	5.0	ug/L			05/06/11 14:16	5
Ethylbenzene	5.0	U	5.0	0.55	ug/L			05/06/11 14:16	5
Ethylene oxide	1000	U	1000	1000	ug/L			05/06/11 14:16	5
Ethyl methacrylate	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
2-Hexanone	50	U	50	5.0	ug/L			05/06/11 14:16	5
Iodomethane	25	U	25	5.0	ug/L			05/06/11 14:16	5
Isobutyl alcohol	200	U	200	55	ug/L			05/06/11 14:16	5
Methacrylonitrile	100	U	100	16	ug/L			05/06/11 14:16	5
Methylene Chloride	25	U	25	5.0	ug/L			05/06/11 14:16	5
Methyl methacrylate	5.0	U	5.0	2.4	ug/L			05/06/11 14:16	5
4-Methyl-2-pentanone (MIBK)	50	U	50	5.0	ug/L			05/06/11 14:16	5
Methyl tert-butyl ether	50	U	50	1.0	ug/L			05/06/11 14:16	5
n-Heptane	5.0	U	5.0	2.1	ug/L			05/06/11 14:16	5
Pentachloroethane	25	U	25	6.0	ug/L			05/06/11 14:16	5
Propionitrile	100	U	100	23	ug/L			05/06/11 14:16	5
Propylene oxide	1000	U	1000	1000	ug/L			05/06/11 14:16	5
Styrene	5.0	U	5.0	0.55	ug/L			05/06/11 14:16	5
<b>t-Butanol</b>	<b>150</b>	<b>D</b>	25	13	ug/L			05/06/11 14:16	5
1,1,1,2-Tetrachloroethane	5.0	U	5.0	1.6	ug/L			05/06/11 14:16	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.90	ug/L			05/06/11 14:16	5
Tetrachloroethene	5.0	U	5.0	0.75	ug/L			05/06/11 14:16	5
Toluene	5.0	U	5.0	1.6	ug/L			05/06/11 14:16	5
trans-1,4-Dichloro-2-butene	10	U	10	2.5	ug/L			05/06/11 14:16	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.0	ug/L			05/06/11 14:16	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.0	ug/L			05/06/11 14:16	5
1,2,3-Trichlorobenzene	5.0	U	5.0	1.8	ug/L			05/06/11 14:16	5
1,1,1-Trichloroethane	5.0	U	5.0	2.5	ug/L			05/06/11 14:16	5
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/L			05/06/11 14:16	5
Trichloroethylene	5.0	U	5.0	0.65	ug/L			05/06/11 14:16	5
Trichlorofluoromethane	5.0	U	5.0	1.2	ug/L			05/06/11 14:16	5
1,2,3-Trichloropropane	5.0	U	5.0	2.0	ug/L			05/06/11 14:16	5
Vinyl acetate	10	U	10	1.4	ug/L			05/06/11 14:16	5
Vinyl chloride	5.0	U	5.0	0.90	ug/L			05/06/11 14:16	5
Xylenes, Total	10	U	10	1.0	ug/L			05/06/11 14:16	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					05/06/11 14:16	5

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		70 - 130			5
Dibromofluoromethane	98		70 - 130			5
Toluene-d8 (Surf)	103		70 - 130			5

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: MW-5

## Lab Sample ID: 680-67898-6

Matrix: Water

Date Collected: 04/29/11 11:40

Date Received: 04/30/11 10:50

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Aminobiphenyl	4.7	U	4.7	0.29	ug/L		05/06/11 14:51	06/02/11 16:18	1
Aniline	1.9	U	1.9	0.92	ug/L		05/06/11 14:51	06/02/11 16:18	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/06/11 14:51	06/02/11 16:18	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/06/11 14:51	06/02/11 16:18	1
Diallate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
<b>1,4-Dichlorobenzene</b>	<b>0.31</b>	<b>J B</b>	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/06/11 14:51	06/02/11 16:18	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 16:18	1
3,3'-Dimethylbenzidine	19	U	19	4.7	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,4-Dimethylphenol	1.9	U	1.9	0.65	ug/L		05/06/11 14:51	06/02/11 16:18	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/06/11 14:51	06/02/11 16:18	1
4,6-Dinitro-2-methylphenol	4.7	U	4.7	0.12	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 16:18	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 16:18	1
<b>1,4-Dioxane</b>	<b>1.3</b>	<b>J</b>	1.9	0.29	ug/L		05/06/11 14:51	06/02/11 16:18	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Famphur	0.95	U *	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 16:18	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-5**

**Lab Sample ID: 680-67898-6**

Date Collected: 04/29/11 11:40

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1
Hexachloroethane	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1
Hexachlorophene	470	U *	470	24	ug/L		05/06/11 14:51	06/02/11 16:18	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 16:18	1
3-Methylcholanthrene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Methylphenol	1.9	U	1.9	0.70	ug/L		05/06/11 14:51	06/02/11 16:18	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 16:18	1
1-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 16:18	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,4-Naphthoquinone	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 16:18	1
3-Nitroaniline	4.7	U	4.7	0.15	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Nitroaniline	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Nitrophenol	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.0	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
o,o',o"-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 16:18	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
p-Dimethylamino azobenzene	4.7	U	4.7	0.14	ug/L		05/06/11 14:51	06/02/11 16:18	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Pentachloronitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1
Pentachlorophenol	4.7	U	4.7	0.38	ug/L		05/06/11 14:51	06/02/11 16:18	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Phenol	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 16:18	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-5**

**Lab Sample ID: 680-67898-6**

Date Collected: 04/29/11 11:40

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 16:18	1
p-Phenylenediamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 16:18	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Pyridine	4.7	U	4.7	0.69	ug/L		05/06/11 14:51	06/02/11 16:18	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 16:18	1
Sulfonepp	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 16:18	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 16:18	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 16:18	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	21	T J	ug/L		4.85		05/06/11 14:51	06/02/11 16:18	1
Unknown	15	T J	ug/L		4.97		05/06/11 14:51	06/02/11 16:18	1
Unknown	95	T J	ug/L		6.17		05/06/11 14:51	06/02/11 16:18	1
Unknown	67	T J	ug/L		6.61		05/06/11 14:51	06/02/11 16:18	1
Unknown	49	T J	ug/L		6.65		05/06/11 14:51	06/02/11 16:18	1
Unknown	30	T J	ug/L		7.11		05/06/11 14:51	06/02/11 16:18	1
Unknown	35	T J	ug/L		8.67		05/06/11 14:51	06/02/11 16:18	1
Unknown	30	T J	ug/L		9.25		05/06/11 14:51	06/02/11 16:18	1
Unknown	24	T J	ug/L		9.32		05/06/11 14:51	06/02/11 16:18	1
Unknown	17	T J	ug/L		10.29		05/06/11 14:51	06/02/11 16:18	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	60		34 - 130	05/06/11 14:51	06/02/11 16:18	1
2-Fluorophenol	52		25 - 130	05/06/11 14:51	06/02/11 16:18	1
Nitrobenzene-d5	50		32 - 130	05/06/11 14:51	06/02/11 16:18	1
Phenol-d5	45		27 - 130	05/06/11 14:51	06/02/11 16:18	1
Terphenyl-d14	61		36 - 130	05/06/11 14:51	06/02/11 16:18	1
2,4,6-Tribromophenol	62		30 - 130	05/06/11 14:51	06/02/11 16:18	1

## Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L		05/12/11 04:17		1
Ethanol	1000	U	1000	330	ug/L		05/13/11 03:10		1
Isopropanol	1000	U	1000	300	ug/L		05/13/11 03:10		1
Methanol	1000	U	1000	830	ug/L		05/13/11 03:10		1

## Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	670		100	50	ug/L		05/05/11 11:21	05/11/11 14:34	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:34	1
Arsenic	1.6	J	2.5	1.3	ug/L		05/05/11 11:21	05/11/11 14:34	1
Barium	790		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 14:34	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 14:34	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: MW-5

Lab Sample ID: 680-67898-6

Date Collected: 04/29/11 11:40

Matrix: Water

Date Received: 04/30/11 10:50

### Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 14:34	1
Calcium	190000		500	170	ug/L		05/05/11 11:21	05/11/11 14:34	1
Chromium	5.0	U	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 14:34	1
Cobalt	1.6		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 14:34	1
Copper	1.7 J		5.0	1.1	ug/L		05/05/11 11:21	05/11/11 14:34	1
Iron	53000		100	44	ug/L		05/05/11 11:21	05/11/11 14:34	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 14:34	1
Magnesium	41000		250	100	ug/L		05/05/11 11:21	05/11/11 14:34	1
Manganese	3000		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:34	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 14:34	1
Nickel	2.7 J		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:34	1
Potassium	6700 B		1000	330	ug/L		05/05/11 11:21	05/11/11 14:34	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 14:34	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 14:34	1
Sodium	760000		2000	680	ug/L		05/05/11 11:21	05/11/11 08:17	4
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 14:34	1
Vanadium	5.0 J		10	3.2	ug/L		05/05/11 11:21	05/11/11 14:34	1
Zinc	20	U	20	8.4	ug/L		05/05/11 11:21	05/11/11 14:34	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200000		20000	3600	ug/L			05/21/11 12:46	20
Nitrogen, Kjeldahl	3000		200	150	ug/L		05/17/11 10:30	05/18/11 15:27	1
Nitrate as N	1000		50	10	ug/L			04/30/11 22:26	1
Nitrite as N	50	U	50	10	ug/L			04/30/11 22:26	1
Sulfate	150000		25000	12000	ug/L			05/23/11 12:11	5
Total Organic Carbon	14000		1000	500	ug/L			05/17/11 21:11	1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-5U**

**Lab Sample ID: 680-67898-7**

**Matrix: Water**

Date Collected: 04/29/11 10:40

Date Received: 04/30/11 10:50

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/06/11 04:35	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 04:35	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 04:35	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 04:35	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 04:35	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 04:35	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 04:35	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 04:35	1
2-Butanone	10	U	10	1.0	ug/L			05/06/11 04:35	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 04:35	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 04:35	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 04:35	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 04:35	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 04:35	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 04:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 04:35	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 04:35	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 04:35	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 04:35	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 04:35	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 04:35	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/06/11 04:35	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 04:35	1
<b>Diethyl ether</b>	<b>700</b>	<b>E</b>	10	1.0	ug/L			05/06/11 04:35	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 04:35	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 04:35	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 04:35	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/06/11 04:35	1
Isobutyl alcohol	40	U	40	11	ug/L			05/06/11 04:35	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 04:35	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 04:35	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 04:35	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 04:35	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 04:35	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 04:35	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 04:35	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 04:35	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 04:35	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 04:35	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/06/11 04:35	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 04:35	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 04:35	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 04:35	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-5U**

**Lab Sample ID: 680-67898-7**

Date Collected: 04/29/11 10:40

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 04:35	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 04:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 04:35	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 04:35	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 04:35	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 04:35	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 04:35	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 04:35	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:35	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 04:35	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 04:35	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 04:35	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 04:35	1
<b>Tentatively Identified Compound</b>	<b>Est. Result</b>	<b>Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>RT</b>	<b>CAS No.</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrahydrofuran	2.6	J N T	ug/L		3.30	109-99-9		05/06/11 04:35	1
<b>Tentatively Identified Compound</b>	<b>None</b>		<b>ug/L</b>					05/06/11 04:35	1
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	94		70 - 130					05/06/11 04:35	1
Dibromofluoromethane	99		70 - 130					05/06/11 04:35	1
Toluene-d8 (Surr)	102		70 - 130					05/06/11 04:35	1

## Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	500	U	500	100	ug/L			05/06/11 14:45	20
Acetonitrile	800	U	800	200	ug/L			05/06/11 14:45	20
Acrolein	400	U	400	150	ug/L			05/06/11 14:45	20
Acrylonitrile	400	U	400	140	ug/L			05/06/11 14:45	20
Allyl chloride	20	U	20	4.0	ug/L			05/06/11 14:45	20
Benzene	20	U	20	5.0	ug/L			05/06/11 14:45	20
Benzyl chloride	20	U	20	20	ug/L			05/06/11 14:45	20
Bromodichloromethane	20	U	20	5.0	ug/L			05/06/11 14:45	20
Bromoform	20	U	20	10	ug/L			05/06/11 14:45	20
Bromomethane	20	U	20	16	ug/L			05/06/11 14:45	20
2-Butanone	200	U	200	20	ug/L			05/06/11 14:45	20
Carbon disulfide	40	U	40	12	ug/L			05/06/11 14:45	20
Carbon tetrachloride	20	U	20	10	ug/L			05/06/11 14:45	20
Chlorobenzene	20	U	20	5.0	ug/L			05/06/11 14:45	20
Chloroethane	20	U	20	20	ug/L			05/06/11 14:45	20
Chloroform	20	U	20	2.8	ug/L			05/06/11 14:45	20
Chloromethane	20	U	20	6.6	ug/L			05/06/11 14:45	20
Chloroprene	20	U	20	6.0	ug/L			05/06/11 14:45	20
cis-1,2-Dichloroethene	20	U	20	3.0	ug/L			05/06/11 14:45	20
cis-1,3-Dichloropropene	20	U	20	2.2	ug/L			05/06/11 14:45	20
Dibromochloromethane	20	U	20	2.0	ug/L			05/06/11 14:45	20
1,2-Dibromo-3-Chloropropane	20	U	20	8.8	ug/L			05/06/11 14:45	20
1,2-Dibromoethane	20	U	20	5.0	ug/L			05/06/11 14:45	20
Dibromomethane	20	U	20	4.0	ug/L			05/06/11 14:45	20
Dichlorodifluoromethane	20	U	20	5.0	ug/L			05/06/11 14:45	20
1,1-Dichloroethane	20	U	20	5.0	ug/L			05/06/11 14:45	20

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-5U**

**Lab Sample ID: 680-67898-7**

Date Collected: 04/29/11 10:40

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	20	U	20	2.0	ug/L			05/06/11 14:45	20
1,1-Dichloroethene	20	U	20	2.2	ug/L			05/06/11 14:45	20
1,2-Dichloropropane	20	U	20	2.6	ug/L			05/06/11 14:45	20
<b>Diethyl ether</b>	<b>650</b>	<b>D</b>	200	20	ug/L			05/06/11 14:45	20
Ethylbenzene	20	U	20	2.2	ug/L			05/06/11 14:45	20
Ethylene oxide	4000	U	4000	4000	ug/L			05/06/11 14:45	20
Ethyl methacrylate	20	U	20	5.0	ug/L			05/06/11 14:45	20
2-Hexanone	200	U	200	20	ug/L			05/06/11 14:45	20
Iodomethane	100	U	100	20	ug/L			05/06/11 14:45	20
Isobutyl alcohol	800	U	800	220	ug/L			05/06/11 14:45	20
Methacrylonitrile	400	U	400	66	ug/L			05/06/11 14:45	20
Methylene Chloride	100	U	100	20	ug/L			05/06/11 14:45	20
Methyl methacrylate	20	U	20	9.6	ug/L			05/06/11 14:45	20
4-Methyl-2-pentanone (MIBK)	200	U	200	20	ug/L			05/06/11 14:45	20
Methyl tert-butyl ether	200	U	200	4.0	ug/L			05/06/11 14:45	20
n-Heptane	20	U	20	8.4	ug/L			05/06/11 14:45	20
Pentachloroethane	100	U	100	24	ug/L			05/06/11 14:45	20
Propionitrile	400	U	400	92	ug/L			05/06/11 14:45	20
Propylene oxide	4000	U	4000	4000	ug/L			05/06/11 14:45	20
Styrene	20	U	20	2.2	ug/L			05/06/11 14:45	20
t-Butanol	100	U	100	52	ug/L			05/06/11 14:45	20
1,1,1,2-Tetrachloroethane	20	U	20	6.6	ug/L			05/06/11 14:45	20
1,1,2,2-Tetrachloroethane	20	U	20	3.6	ug/L			05/06/11 14:45	20
Tetrachloroethene	20	U	20	3.0	ug/L			05/06/11 14:45	20
Toluene	20	U	20	6.6	ug/L			05/06/11 14:45	20
trans-1,4-Dichloro-2-butene	40	U	40	10	ug/L			05/06/11 14:45	20
trans-1,2-Dichloroethene	20	U	20	4.0	ug/L			05/06/11 14:45	20
trans-1,3-Dichloropropene	20	U	20	4.2	ug/L			05/06/11 14:45	20
1,2,3-Trichlorobenzene	20	U	20	7.0	ug/L			05/06/11 14:45	20
1,1,1-Trichloroethane	20	U	20	10	ug/L			05/06/11 14:45	20
1,1,2-Trichloroethane	20	U	20	2.6	ug/L			05/06/11 14:45	20
Trichloroethylene	20	U	20	2.6	ug/L			05/06/11 14:45	20
Trichlorofluoromethane	20	U	20	5.0	ug/L			05/06/11 14:45	20
1,2,3-Trichloropropane	20	U	20	8.2	ug/L			05/06/11 14:45	20
Vinyl acetate	40	U	40	5.6	ug/L			05/06/11 14:45	20
Vinyl chloride	20	U	20	3.6	ug/L			05/06/11 14:45	20
Xylenes, Total	40	U	40	4.0	ug/L			05/06/11 14:45	20

## Tentatively Identified Compound

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					05/06/11 14:45	20

## Surrogate

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		70 - 130			20
Dibromofluoromethane	98		70 - 130			20
Toluene-d8 (Surr)	103		70 - 130			20

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Acenaphthylene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Acetophenone	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-5U**

**Lab Sample ID: 680-67898-7**

Date Collected: 04/29/11 10:40

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Acetylaminofluorene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
alpha,alpha-Dimethyl phenethylamine	9.7	U	9.7	3.3	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/06/11 14:51	06/02/11 16:46	1
Aniline	1.9	U	1.9	0.94	ug/L		05/06/11 14:51	06/02/11 16:46	1
Anthracene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Aramite, Total	1.5	U	1.5	0.11	ug/L		05/06/11 14:51	06/02/11 16:46	1
Benzo[a]anthracene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Benzo[a]pyrene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Benzo[b]fluoranthene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Benzo[k]fluoranthene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Benzyl alcohol	0.97	U	0.97	0.14	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,1'-Biphenyl	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Bis(2-chloroethoxy)methane	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Bis(2-chloroethyl)ether	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.62	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Bromophenyl phenyl ether	0.97	U	0.97	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
Butyl benzyl phthalate	0.97	U	0.97	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Chloroaniline	1.9	U	1.9	0.35	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Chloro-3-methylphenol	0.97	U	0.97	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Chloronaphthalene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Chlorophenol	0.97	U	0.97	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Chlorophenyl phenyl ether	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Chrysene	0.19	U	0.19	0.044	ug/L		05/06/11 14:51	06/02/11 16:46	1
Diallate	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Dibenzofuran	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,2-Dichlorobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,3-Dichlorobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
<b>1,4-Dichlorobenzene</b>	<b>0.67</b>	<b>J B</b>	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,4-Dichlorophenol	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,6-Dichlorophenol	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Diethyl phthalate	0.97	U	0.97	0.11	ug/L		05/06/11 14:51	06/02/11 16:46	1
Dimethoate	1.9	U	1.9	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
7,12-Dimethylbenz(a)anthracene	0.97	U	0.97	0.19	ug/L		05/06/11 14:51	06/02/11 16:46	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,4-Dimethylphenol	1.9	U	1.9	0.67	ug/L		05/06/11 14:51	06/02/11 16:46	1
Dimethyl phthalate	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Di-n-butyl phthalate	0.97	U	0.97	0.38	ug/L		05/06/11 14:51	06/02/11 16:46	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.13	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,4-Dinitrophenol	9.7	U	9.7	1.1	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,4-Dinitrotoluene	0.97	U	0.97	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,6-Dinitrotoluene	0.97	U	0.97	0.13	ug/L		05/06/11 14:51	06/02/11 16:46	1
Di-n-octyl phthalate	0.97	U	0.97	0.16	ug/L		05/06/11 14:51	06/02/11 16:46	1
<b>1,4-Dioxane</b>	<b>2.7</b>		1.9	0.30	ug/L		05/06/11 14:51	06/02/11 16:46	1
Disulfoton	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Ethyl methanesulfonate	1.9	U	1.9	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Ethyl Parathion	1.9	U	1.9	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Famphur	0.97	U *	0.97	0.15	ug/L		05/06/11 14:51	06/02/11 16:46	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-5U**

**Lab Sample ID: 680-67898-7**

Date Collected: 04/29/11 10:40

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Fluorene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Hexachlorobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Hexachlorobutadiene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1
Hexachloroethane	0.97	U	0.97	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1
Hexachlorophene	480	U *	480	24	ug/L		05/06/11 14:51	06/02/11 16:46	1
Hexachloropropene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Isophorone	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Isosafrole	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
m-Dinitrobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Methapyrilene	190	U	190	1.3	ug/L		05/06/11 14:51	06/02/11 16:46	1
3-Methylcholanthrene	0.97	U	0.97	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1
Methyl methanesulfonate	1.9	U	1.9	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Methylnaphthalene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Methyl parathion	0.97	U	0.97	0.13	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Methylphenol	1.9	U	1.9	0.72	ug/L		05/06/11 14:51	06/02/11 16:46	1
3 & 4 Methylphenol	1.9	U	1.9	0.64	ug/L		05/06/11 14:51	06/02/11 16:46	1
1-Naphthalenamine	4.8	U	4.8	1.3	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Naphthalenamine	4.8	U	4.8	1.3	ug/L		05/06/11 14:51	06/02/11 16:46	1
Naphthalene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,4-Naphthoquinone	0.97	U	0.97	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Nitroaniline	0.97	U	0.97	0.15	ug/L		05/06/11 14:51	06/02/11 16:46	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1
Nitrobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
5-Nitro-o-toluidine	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Nitrophenol	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.1	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosodiethylamine	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosodimethylamine	0.97	U	0.97	0.24	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosodi-n-butylamine	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosodi-n-propylamine	0.97	U	0.97	0.13	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosodiphenylamine	0.97	U	0.97	0.36	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosomorpholine	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosopiperidine	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
N-Nitrosopyrrolidine	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
o,o",o"-Triethylphosphorothioate	0.97	U	0.97	0.13	ug/L		05/06/11 14:51	06/02/11 16:46	1
o-Toluidine	0.97	U	0.97	0.13	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,2'-oxybis[1-chloropropane]	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.15	ug/L		05/06/11 14:51	06/02/11 16:46	1
Pentachlorobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Pentachloronitrobenzene	0.97	U	0.97	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1
Pentachlorophenol	4.8	U	4.8	0.39	ug/L		05/06/11 14:51	06/02/11 16:46	1
Phenacetin	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Phenanthrene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Phenol	0.97	U	0.97	0.13	ug/L		05/06/11 14:51	06/02/11 16:46	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: MW-5U

## Lab Sample ID: 680-67898-7

Date Collected: 04/29/11 10:40

Matrix: Water

Date Received: 04/30/11 10:50

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenyl ether	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Phorate	0.97	U	0.97	0.19	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-Picoline	1.9	U	1.9	0.15	ug/L		05/06/11 14:51	06/02/11 16:46	1
p-Phenylenediamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 16:46	1
Pronamide	0.97	U	0.97	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
Pyrene	0.19	U	0.19	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Pyridine	4.8	U	4.8	0.71	ug/L		05/06/11 14:51	06/02/11 16:46	1
Safrole, Total	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.15	ug/L		05/06/11 14:51	06/02/11 16:46	1
Sulfotep	0.97	U	0.97	0.14	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,2,4,5-Tetrachlorobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,3,4,6-Tetrachlorophenol	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
Thionazin	0.97	U	0.97	0.19	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,2,4-Trichlorobenzene	0.97	U	0.97	0.097	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,4,5-Trichlorophenol	0.97	U	0.97	0.12	ug/L		05/06/11 14:51	06/02/11 16:46	1
2,4,6-Trichlorophenol	0.97	U	0.97	0.16	ug/L		05/06/11 14:51	06/02/11 16:46	1
1,3,5-Trinitrobenzene	0.97	U	0.97	0.48	ug/L		05/06/11 14:51	06/02/11 16:46	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	19	T J	ug/L		6.12		05/06/11 14:51	06/02/11 16:46	1
Unknown	180	T J	ug/L		7.12		05/06/11 14:51	06/02/11 16:46	1
Unknown	10	T J	ug/L		8.60		05/06/11 14:51	06/02/11 16:46	1
Unknown	150	T J	ug/L		8.69		05/06/11 14:51	06/02/11 16:46	1
Unknown	15	T J	ug/L		9.04		05/06/11 14:51	06/02/11 16:46	1
Unknown	80	T J	ug/L		9.26		05/06/11 14:51	06/02/11 16:46	1
Unknown Organic Acid	64	T J	ug/L		9.33		05/06/11 14:51	06/02/11 16:46	1
Unknown	52	T J	ug/L		10.10		05/06/11 14:51	06/02/11 16:46	1
Unknown	30	T J	ug/L		10.53		05/06/11 14:51	06/02/11 16:46	1
Unknown	20	T J	ug/L		10.60		05/06/11 14:51	06/02/11 16:46	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	55		34 - 130		06/02/11 16:46	1
2-Fluorophenol	57		25 - 130		06/02/11 16:46	1
Nitrobenzene-d5	53		32 - 130		06/02/11 16:46	1
Phenol-d5	46		27 - 130		06/02/11 16:46	1
Terphenyl-d14	52		36 - 130		06/02/11 16:46	1
2,4,6-Tribromophenol	62		30 - 130		06/02/11 16:46	1

### Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L		05/12/11 04:40		1
Ethanol	1000	U	1000	330	ug/L		05/13/11 03:34		1
Isopropanol	1000	U	1000	300	ug/L		05/13/11 03:34		1
Methanol	160000		20000	17000	ug/L		05/13/11 11:35		20

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	88	J	100	50	ug/L		05/05/11 11:21	05/11/11 14:41	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:41	1
Arsenic	5.7		2.5	1.3	ug/L		05/05/11 11:21	05/11/11 14:41	1
Barium	140		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 14:41	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-5U**

**Lab Sample ID: 680-67898-7**

Date Collected: 04/29/11 10:40

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 14:41	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 14:41	1
<b>Calcium</b>	<b>120000</b>		500	170	ug/L		05/05/11 11:21	05/11/11 14:41	1
<b>Chromium</b>	<b>4.8 J</b>		5.0	2.5	ug/L		05/05/11 11:21	05/11/11 14:41	1
<b>Cobalt</b>	<b>9.6</b>		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 14:41	1
<b>Copper</b>	<b>2.7 J</b>		5.0	1.1	ug/L		05/05/11 11:21	05/11/11 14:41	1
<b>Iron</b>	<b>13000</b>		100	44	ug/L		05/05/11 11:21	05/11/11 14:41	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 14:41	1
<b>Magnesium</b>	<b>31000</b>		250	100	ug/L		05/05/11 11:21	05/11/11 14:41	1
<b>Manganese</b>	<b>2100</b>		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:41	1
Mercury	8.0	U	8.0	4.0	ug/L		05/05/11 11:21	05/11/11 08:24	10
<b>Nickel</b>	<b>8.9</b>		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:41	1
<b>Potassium</b>	<b>6600 B</b>		1000	330	ug/L		05/05/11 11:21	05/11/11 14:41	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 14:41	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 14:41	1
<b>Sodium</b>	<b>1900000</b>		5000	1700	ug/L		05/05/11 11:21	05/11/11 08:24	10
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 14:41	1
<b>Vanadium</b>	<b>240</b>		10	3.2	ug/L		05/05/11 11:21	05/11/11 14:41	1
<b>Zinc</b>	<b>10 J</b>		20	8.4	ug/L		05/05/11 11:21	05/11/11 14:41	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>2000000</b>		50000	9000	ug/L			05/21/11 13:03	50
<b>Nitrogen, Kjeldahl</b>	<b>2400</b>		200	150	ug/L		05/17/11 10:30	05/18/11 15:27	1
<b>Nitrate as N</b>	<b>28 J</b>		50	10	ug/L			04/30/11 22:30	1
Nitrite as N	50	U	50	10	ug/L			04/30/11 22:30	1
<b>Sulfate</b>	<b>390000</b>		100000	50000	ug/L			05/23/11 12:40	20
<b>Total Organic Carbon</b>	<b>26000</b>		1000	500	ug/L			05/17/11 21:31	1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: FIELD BLANK**

**Lab Sample ID: 680-67898-8**

**Matrix: Water**

Date Collected: 04/29/11 00:00

Date Received: 04/30/11 10:50

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 15:25	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 15:25	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 15:25	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 15:25	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 15:25	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 15:25	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 15:25	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 15:25	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 15:25	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 15:25	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 15:25	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 15:25	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 15:25	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 15:25	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 15:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 15:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 15:25	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 15:25	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 15:25	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 15:25	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 15:25	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 15:25	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 15:25	1
Diethyl ether	10	U	10	1.0	ug/L			05/04/11 15:25	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 15:25	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 15:25	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 15:25	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 15:25	1
Isobutyl alcohol	40	U	40	11	ug/L			05/04/11 15:25	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 15:25	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 15:25	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 15:25	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 15:25	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 15:25	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 15:25	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 15:25	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 15:25	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 15:25	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 15:25	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/04/11 15:25	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 15:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 15:25	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 15:25	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: FIELD BLANK

Lab Sample ID: 680-67898-8

Matrix: Water

Date Collected: 04/29/11 00:00

Date Received: 04/30/11 10:50

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 15:25	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 15:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 15:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 15:25	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 15:25	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 15:25	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 15:25	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 15:25	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 15:25	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 15:25	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 15:25	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 15:25	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 15:25	1

### Tentatively Identified Compound

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	None		ug/L					05/04/11 15:25	1

### Surrogate

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		70 - 130		05/04/11 15:25	1
Dibromofluoromethane	105		70 - 130		05/04/11 15:25	1
Toluene-d8 (Surr)	101		70 - 130		05/04/11 15:25	1

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L			05/06/11 14:51	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L			05/06/11 14:51	1
<b>Acetophenone</b>	<b>0.17 J B</b>		0.95	0.095	ug/L			05/06/11 14:51	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L			05/06/11 14:51	1
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L			05/06/11 14:51	1
4-Aminobiphenyl	4.7	U	4.7	0.29	ug/L			05/06/11 14:51	1
Aniline	1.9	U	1.9	0.92	ug/L			05/06/11 14:51	1
Anthracene	0.19	U	0.19	0.095	ug/L			05/06/11 14:51	1
Aramite, Total	1.4	U	1.4	0.10	ug/L			05/06/11 14:51	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L			05/06/11 14:51	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L			05/06/11 14:51	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L			05/06/11 14:51	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L			05/06/11 14:51	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L			05/06/11 14:51	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L			05/06/11 14:51	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L			05/06/11 14:51	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L			05/06/11 14:51	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L			05/06/11 14:51	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L			05/06/11 14:51	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L			05/06/11 14:51	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L			05/06/11 14:51	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L			05/06/11 14:51	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L			05/06/11 14:51	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L			05/06/11 14:51	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L			05/06/11 14:51	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L			05/06/11 14:51	1
Chrysene	0.19	U	0.19	0.043	ug/L			05/06/11 14:51	1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: FIELD BLANK

## Lab Sample ID: 680-67898-8

Matrix: Water

Date Collected: 04/29/11 00:00

Date Received: 04/30/11 10:50

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
<b>1,4-Dichlorobenzene</b>	<b>0.44</b>	<b>J B</b>	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/06/11 14:51	06/02/11 17:14	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 17:14	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 17:14	1
3,3'-Dimethylbenzidine	19	U	19	4.7	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,4-Dimethylphenol	1.9	U	1.9	0.65	ug/L		05/06/11 14:51	06/02/11 17:14	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/06/11 14:51	06/02/11 17:14	1
4,6-Dinitro-2-methylphenol	4.7	U	4.7	0.12	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:14	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,4-Dioxane	1.9	U	1.9	0.29	ug/L		05/06/11 14:51	06/02/11 17:14	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Famphur	0.95	U *	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 17:14	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Fluorene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1
Hexachloroethane	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1
Hexachlorophene	470	U *	470	24	ug/L		05/06/11 14:51	06/02/11 17:14	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 17:14	1
3-Methylcholanthrene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Methylphenol	1.9	U	1.9	0.70	ug/L		05/06/11 14:51	06/02/11 17:14	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 17:14	1
1-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 17:14	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,4-Naphthoquinone	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 17:14	1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: FIELD BLANK

## Lab Sample ID: 680-67898-8

Matrix: Water

Date Collected: 04/29/11 00:00

Date Received: 04/30/11 10:50

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	4.7	U	4.7	0.15	ug/L		05/06/11 14:51	06/02/11 17:14	1
4-Nitroaniline	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
4-Nitrophenol	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.0	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
o,o',o"-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:14	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
p-Dimethylamino azobenzene	4.7	U	4.7	0.14	ug/L		05/06/11 14:51	06/02/11 17:14	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Pentachloronitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1
Pentachlorophenol	4.7	U	4.7	0.38	ug/L		05/06/11 14:51	06/02/11 17:14	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Phenol	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:14	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Phorate	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 17:14	1
p-Phenylenediamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 17:14	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:14	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Pyridine	4.7	U	4.7	0.69	ug/L		05/06/11 14:51	06/02/11 17:14	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 17:14	1
Sulfotep	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:14	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 17:14	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 17:14	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
2-Pentanone, 4-hydroxy-4-methyl-	8.9	T J N	ug/L		2.90	123-42-2	05/06/11 14:51	06/02/11 17:14	1
Unknown	2.4	T J	ug/L		2.94		05/06/11 14:51	06/02/11 17:14	1
Unknown	3.5	T J	ug/L		4.09		05/06/11 14:51	06/02/11 17:14	1
Sulfur, mol. (S8)	2.1	T J N	ug/L		10.98	10544-50-0	05/06/11 14:51	06/02/11 17:14	1
Unknown	4.4	T J	ug/L		11.43		05/06/11 14:51	06/02/11 17:14	1
Octadecanoic acid, butyl ester	3.7	T J N	ug/L		12.28	123-95-5	05/06/11 14:51	06/02/11 17:14	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: FIELD BLANK

Lab Sample ID: 680-67898-8

Matrix: Water

Date Collected: 04/29/11 00:00

Date Received: 04/30/11 10:50

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tetracosane	1.1	T J N	ug/L		12.33	646-31-1	05/06/11 14:51	06/02/11 17:14	1
Heptadecane, 9-octyl-	1.1	T J N	ug/L		13.11	7225-64-1	05/06/11 14:51	06/02/11 17:14	1
Unknown	2.1	T J	ug/L		15.88		05/06/11 14:51	06/02/11 17:14	1
Unknown	3.0	T J	ug/L		17.21		05/06/11 14:51	06/02/11 17:14	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	56		34 - 130	05/06/11 14:51	06/02/11 17:14	1
2-Fluorophenol	63		25 - 130	05/06/11 14:51	06/02/11 17:14	1
Nitrobenzene-d5	55		32 - 130	05/06/11 14:51	06/02/11 17:14	1
Phenol-d5	48		27 - 130	05/06/11 14:51	06/02/11 17:14	1
Terphenyl-d14	66		36 - 130	05/06/11 14:51	06/02/11 17:14	1
2,4,6-Tribromophenol	56		30 - 130	05/06/11 14:51	06/02/11 17:14	1

### Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L		05/12/11 05:04		1
Ethanol	1000	U	1000	330	ug/L		05/13/11 03:58		1
Isopropanol	1000	U	1000	300	ug/L		05/13/11 03:58		1
Methanol	1000	U	1000	830	ug/L		05/13/11 03:58		1

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	50	ug/L		05/05/11 11:21	05/11/11 08:31	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:31	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/05/11 11:21	05/11/11 08:31	1
Barium	5.0	U	5.0	1.4	ug/L		05/05/11 11:21	05/11/11 08:31	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 08:31	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 08:31	1
<b>Calcium</b>	<b>380</b>	<b>J</b>	500	170	ug/L		05/05/11 11:21	05/11/11 08:31	1
Chromium	5.0	U	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 08:31	1
Cobalt	0.50	U	0.50	0.12	ug/L		05/05/11 11:21	05/11/11 08:31	1
Copper	5.0	U	5.0	1.1	ug/L		05/05/11 11:21	05/11/11 08:31	1
Iron	100	U	100	44	ug/L		05/05/11 11:21	05/11/11 08:31	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 08:31	1
Magnesium	250	U	250	100	ug/L		05/05/11 11:21	05/11/11 08:31	1
Manganese	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:31	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 08:31	1
<b>Nickel</b>	<b>2.1</b>	<b>J</b>	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:31	1
Potassium	1000	U	1000	330	ug/L		05/05/11 11:21	05/11/11 08:31	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 08:31	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 08:31	1
<b>Sodium</b>	<b>400</b>	<b>J</b>	500	170	ug/L		05/05/11 11:21	05/11/11 08:31	1
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 08:31	1
Vanadium	10	U	10	3.2	ug/L		05/05/11 11:21	05/11/11 08:31	1
Zinc	20	U	20	8.4	ug/L		05/05/11 11:21	05/11/11 08:31	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000	U	1000	180	ug/L		05/21/11 12:54		1
<b>Nitrogen, Kjeldahl</b>	<b>290</b>		200	150	ug/L		05/17/11 10:30	05/18/11 15:27	1
<b>Nitrate as N</b>	<b>1100</b>		50	10	ug/L			04/30/11 22:31	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.  
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1  
SDG: HAQ036

## Client Sample ID: FIELD BLANK

Lab Sample ID: 680-67898-8

Date Collected: 04/29/11 00:00  
Date Received: 04/30/11 10:50

Matrix: Water

### General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	50	U	50	10	ug/L			04/30/11 22:31	1
Sulfate	4200	J	5000	2500	ug/L			05/23/11 11:19	1
Total Organic Carbon	1000	U	1000	500	ug/L			05/17/11 21:49	1

1

2

3

4

5

6

7

8

9

10

11

12

13

14

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: FIELD DUPLICATE

Lab Sample ID: 680-67898-9

Matrix: Water

Date Collected: 04/29/11 00:00

Date Received: 04/30/11 10:50

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/06/11 05:21	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 05:21	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 05:21	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 05:21	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 05:21	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 05:21	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 05:21	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 05:21	1
2-Butanone	10	U	10	1.0	ug/L			05/06/11 05:21	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 05:21	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 05:21	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 05:21	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 05:21	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 05:21	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 05:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 05:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 05:21	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 05:21	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 05:21	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 05:21	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 05:21	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/06/11 05:21	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 05:21	1
<b>Diethyl ether</b>	<b>220</b>	<b>E</b>	10	1.0	ug/L			05/06/11 05:21	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 05:21	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 05:21	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 05:21	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/06/11 05:21	1
Isobutyl alcohol	40	U	40	11	ug/L			05/06/11 05:21	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 05:21	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 05:21	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 05:21	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 05:21	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 05:21	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 05:21	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 05:21	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 05:21	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 05:21	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 05:21	1
<b>t-Butanol</b>	<b>160</b>	<b>E</b>	5.0	2.6	ug/L			05/06/11 05:21	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 05:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 05:21	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 05:21	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: FIELD DUPLICATE

Lab Sample ID: 680-67898-9

Matrix: Water

Date Collected: 04/29/11 00:00

Date Received: 04/30/11 10:50

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 05:21	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 05:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 05:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 05:21	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 05:21	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 05:21	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 05:21	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 05:21	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 05:21	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 05:21	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 05:21	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 05:21	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 05:21	1
<b>Tentatively Identified Compound</b>	<b>Est. Result</b>	<b>Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>RT</b>	<b>CAS No.</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tentatively Identified Compound	None		ug/L					05/06/11 05:21	1
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	96		70 - 130					05/06/11 05:21	1
Dibromofluoromethane	102		70 - 130					05/06/11 05:21	1
Toluene-d8 (Surr)	103		70 - 130					05/06/11 05:21	1

### Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	120	U	120	25	ug/L			05/06/11 15:13	5
Acetonitrile	200	U	200	50	ug/L			05/06/11 15:13	5
Acrolein	100	U	100	37	ug/L			05/06/11 15:13	5
Acrylonitrile	100	U	100	36	ug/L			05/06/11 15:13	5
Allyl chloride	5.0	U	5.0	1.0	ug/L			05/06/11 15:13	5
Benzene	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
Benzyl chloride	5.0	U	5.0	5.0	ug/L			05/06/11 15:13	5
Bromodichloromethane	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
Bromoform	5.0	U	5.0	2.5	ug/L			05/06/11 15:13	5
Bromomethane	5.0	U	5.0	4.0	ug/L			05/06/11 15:13	5
2-Butanone	50	U	50	5.0	ug/L			05/06/11 15:13	5
Carbon disulfide	10	U	10	3.0	ug/L			05/06/11 15:13	5
Carbon tetrachloride	5.0	U	5.0	2.5	ug/L			05/06/11 15:13	5
Chlorobenzene	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
Chloroethane	5.0	U	5.0	5.0	ug/L			05/06/11 15:13	5
Chloroform	5.0	U	5.0	0.70	ug/L			05/06/11 15:13	5
Chloromethane	5.0	U	5.0	1.6	ug/L			05/06/11 15:13	5
Chloroprene	5.0	U	5.0	1.5	ug/L			05/06/11 15:13	5
cis-1,2-Dichloroethene	5.0	U	5.0	0.75	ug/L			05/06/11 15:13	5
cis-1,3-Dichloropropene	5.0	U	5.0	0.55	ug/L			05/06/11 15:13	5
Dibromochloromethane	5.0	U	5.0	0.50	ug/L			05/06/11 15:13	5
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.2	ug/L			05/06/11 15:13	5
1,2-Dibromoethane	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
Dibromomethane	5.0	U	5.0	1.0	ug/L			05/06/11 15:13	5
Dichlorodifluoromethane	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
1,1-Dichloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
1,2-Dichloroethane	5.0	U	5.0	0.50	ug/L			05/06/11 15:13	5

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: FIELD DUPLICATE

Lab Sample ID: 680-67898-9

Matrix: Water

Date Collected: 04/29/11 00:00

Date Received: 04/30/11 10:50

### Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	5.0	U	5.0	0.55	ug/L			05/06/11 15:13	5
1,2-Dichloropropane	5.0	U	5.0	0.65	ug/L			05/06/11 15:13	5
<b>Diethyl ether</b>	<b>220</b>	<b>D</b>	50	5.0	ug/L			05/06/11 15:13	5
Ethylbenzene	5.0	U	5.0	0.55	ug/L			05/06/11 15:13	5
Ethylene oxide	1000	U	1000	1000	ug/L			05/06/11 15:13	5
Ethyl methacrylate	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
2-Hexanone	50	U	50	5.0	ug/L			05/06/11 15:13	5
Iodomethane	25	U	25	5.0	ug/L			05/06/11 15:13	5
Isobutyl alcohol	200	U	200	55	ug/L			05/06/11 15:13	5
Methacrylonitrile	100	U	100	16	ug/L			05/06/11 15:13	5
Methylene Chloride	25	U	25	5.0	ug/L			05/06/11 15:13	5
Methyl methacrylate	5.0	U	5.0	2.4	ug/L			05/06/11 15:13	5
4-Methyl-2-pentanone (MIBK)	50	U	50	5.0	ug/L			05/06/11 15:13	5
Methyl tert-butyl ether	50	U	50	1.0	ug/L			05/06/11 15:13	5
n-Heptane	5.0	U	5.0	2.1	ug/L			05/06/11 15:13	5
Pentachloroethane	25	U	25	6.0	ug/L			05/06/11 15:13	5
Propionitrile	100	U	100	23	ug/L			05/06/11 15:13	5
Propylene oxide	1000	U	1000	1000	ug/L			05/06/11 15:13	5
Styrene	5.0	U	5.0	0.55	ug/L			05/06/11 15:13	5
<b>t-Butanol</b>	<b>180</b>	<b>D</b>	25	13	ug/L			05/06/11 15:13	5
1,1,1,2-Tetrachloroethane	5.0	U	5.0	1.6	ug/L			05/06/11 15:13	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.90	ug/L			05/06/11 15:13	5
Tetrachloroethene	5.0	U	5.0	0.75	ug/L			05/06/11 15:13	5
Toluene	5.0	U	5.0	1.6	ug/L			05/06/11 15:13	5
trans-1,4-Dichloro-2-butene	10	U	10	2.5	ug/L			05/06/11 15:13	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.0	ug/L			05/06/11 15:13	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.0	ug/L			05/06/11 15:13	5
1,2,3-Trichlorobenzene	5.0	U	5.0	1.8	ug/L			05/06/11 15:13	5
1,1,1-Trichloroethane	5.0	U	5.0	2.5	ug/L			05/06/11 15:13	5
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/L			05/06/11 15:13	5
Trichloroethylene	5.0	U	5.0	0.65	ug/L			05/06/11 15:13	5
Trichlorofluoromethane	5.0	U	5.0	1.2	ug/L			05/06/11 15:13	5
1,2,3-Trichloropropane	5.0	U	5.0	2.0	ug/L			05/06/11 15:13	5
Vinyl acetate	10	U	10	1.4	ug/L			05/06/11 15:13	5
Vinyl chloride	5.0	U	5.0	0.90	ug/L			05/06/11 15:13	5
Xylenes, Total	10	U	10	1.0	ug/L			05/06/11 15:13	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					05/06/11 15:13	5

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		70 - 130		05/06/11 15:13	5
Dibromofluoromethane	99		70 - 130		05/06/11 15:13	5
Toluene-d8 (Surf)	104		70 - 130		05/06/11 15:13	5

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
<b>Acetophenone</b>	<b>0.10</b>	<b>J B</b>	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: FIELD DUPLICATE

Lab Sample ID: 680-67898-9

Matrix: Water

Date Collected: 04/29/11 00:00

Date Received: 04/30/11 10:50

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/06/11 14:51	06/02/11 17:42	1
Aniline	1.9	U	1.9	0.93	ug/L		05/06/11 14:51	06/02/11 17:42	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/06/11 14:51	06/02/11 17:42	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/06/11 14:51	06/02/11 17:42	1
Diallate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
<b>1,4-Dichlorobenzene</b>	<b>0.39</b>	<b>J B</b>	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/06/11 14:51	06/02/11 17:42	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 17:42	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,4-Dimethylphenol	1.9	U	1.9	0.66	ug/L		05/06/11 14:51	06/02/11 17:42	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/06/11 14:51	06/02/11 17:42	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:42	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,4-Dioxane	1.9	U	1.9	0.30	ug/L		05/06/11 14:51	06/02/11 17:42	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Famphur	0.95	U *	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 17:42	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: FIELD DUPLICATE

Lab Sample ID: 680-67898-9

Matrix: Water

Date Collected: 04/29/11 00:00

Date Received: 04/30/11 10:50

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1
Hexachlorophene	480	U *	480	24	ug/L		05/06/11 14:51	06/02/11 17:42	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 17:42	1
3-Methylcholanthrene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/06/11 14:51	06/02/11 17:42	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 17:42	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 17:42	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,4-Naphthoquinone	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 17:42	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.0	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
o,o',o"-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:42	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/06/11 14:51	06/02/11 17:42	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Pentachloronitrobenzene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/06/11 14:51	06/02/11 17:42	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Phenol	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 17:42	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: FIELD DUPLICATE

Lab Sample ID: 680-67898-9

Matrix: Water

Date Collected: 04/29/11 00:00

Date Received: 04/30/11 10:50

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 17:42	1
p-Phenylenediamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 17:42	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/06/11 14:51	06/02/11 17:42	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 17:42	1
Sulfoteppe	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 17:42	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 17:42	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 17:42	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	45	T J	ug/L		4.96		05/06/11 14:51	06/02/11 17:42	1
Unknown	55	T J	ug/L		5.32		05/06/11 14:51	06/02/11 17:42	1
Unknown	100	T J	ug/L		6.17		05/06/11 14:51	06/02/11 17:42	1
Unknown	83	T J	ug/L		6.61		05/06/11 14:51	06/02/11 17:42	1
Unknown	48	T J	ug/L		6.65		05/06/11 14:51	06/02/11 17:42	1
Unknown	36	T J	ug/L		7.11		05/06/11 14:51	06/02/11 17:42	1
Unknown	41	T J	ug/L		8.67		05/06/11 14:51	06/02/11 17:42	1
Unknown Organic Acid	37	T J	ug/L		9.07		05/06/11 14:51	06/02/11 17:42	1
Unknown	41	T J	ug/L		9.25		05/06/11 14:51	06/02/11 17:42	1
Unknown	30	T J	ug/L		9.33		05/06/11 14:51	06/02/11 17:42	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		34 - 130	05/06/11 14:51	06/02/11 17:42	1
2-Fluorophenol	43		25 - 130	05/06/11 14:51	06/02/11 17:42	1
Nitrobenzene-d5	47		32 - 130	05/06/11 14:51	06/02/11 17:42	1
Phenol-d5	42		27 - 130	05/06/11 14:51	06/02/11 17:42	1
Terphenyl-d14	68		36 - 130	05/06/11 14:51	06/02/11 17:42	1
2,4,6-Tribromophenol	65		30 - 130	05/06/11 14:51	06/02/11 17:42	1

### Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L		05/12/11 05:28		1
Ethanol	1000	U	1000	330	ug/L		05/13/11 04:21		1
Isopropanol	1000	U	1000	300	ug/L		05/13/11 04:21		1
Methanol	1000	U	1000	830	ug/L		05/13/11 04:21		1

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	610		100	50	ug/L		05/05/11 11:21	05/11/11 14:48	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:48	1
Arsenic	1.7	J	2.5	1.3	ug/L		05/05/11 11:21	05/11/11 14:48	1
Barium	780		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 14:48	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 14:48	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: FIELD DUPLICATE

Lab Sample ID: 680-67898-9

Matrix: Water

Date Collected: 04/29/11 00:00

Date Received: 04/30/11 10:50

### Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 14:48	1
Calcium	180000		500	170	ug/L		05/05/11 11:21	05/11/11 14:48	1
Chromium	5.0	U	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 14:48	1
Cobalt	1.5		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 14:48	1
Copper	1.9 J		5.0	1.1	ug/L		05/05/11 11:21	05/11/11 14:48	1
Iron	51000		100	44	ug/L		05/05/11 11:21	05/11/11 14:48	1
Lead	1.5 U		1.5	0.50	ug/L		05/05/11 11:21	05/11/11 14:48	1
Magnesium	39000		250	100	ug/L		05/05/11 11:21	05/11/11 14:48	1
Manganese	2900		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:48	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 14:48	1
Nickel	2.3 J		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 14:48	1
Potassium	6800 B		1000	330	ug/L		05/05/11 11:21	05/11/11 14:48	1
Selenium	2.5 U		2.5	1.1	ug/L		05/05/11 11:21	05/11/11 14:48	1
Silver	1.0 U		1.0	0.18	ug/L		05/05/11 11:21	05/11/11 14:48	1
Sodium	710000		1000	340	ug/L		05/05/11 11:21	05/11/11 08:38	2
Thallium	1.0 U		1.0	0.25	ug/L		05/05/11 11:21	05/11/11 14:48	1
Vanadium	4.9 J		10	3.2	ug/L		05/05/11 11:21	05/11/11 14:48	1
Zinc	12 J		20	8.4	ug/L		05/05/11 11:21	05/11/11 14:48	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100000		20000	3600	ug/L		05/21/11 12:49		20
Nitrogen, Kjeldahl	3300		200	150	ug/L		05/17/11 10:30	05/18/11 15:27	1
Nitrate as N	350		50	10	ug/L			04/30/11 22:32	1
Nitrite as N	50 U		50	10	ug/L			04/30/11 22:32	1
Sulfate	130000		25000	12000	ug/L			05/23/11 12:09	5
Total Organic Carbon	15000		1000	500	ug/L			05/17/11 22:08	1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-2**

**Lab Sample ID: 680-67898-10**

Date Collected: 04/29/11 14:30

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/06/11 04:58	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 04:58	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 04:58	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 04:58	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 04:58	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 04:58	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 04:58	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 04:58	1
2-Butanone	10	U	10	1.0	ug/L			05/06/11 04:58	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 04:58	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 04:58	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 04:58	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 04:58	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 04:58	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 04:58	1
<b>cis-1,2-Dichloroethene</b>	<b>0.99</b>	<b>J</b>	1.0	0.15	ug/L			05/06/11 04:58	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 04:58	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 04:58	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 04:58	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 04:58	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 04:58	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/06/11 04:58	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 04:58	1
<b>Diethyl ether</b>	<b>5600</b>	<b>E</b>	10	1.0	ug/L			05/06/11 04:58	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 04:58	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 04:58	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 04:58	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/06/11 04:58	1
Isobutyl alcohol	40	U	40	11	ug/L			05/06/11 04:58	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 04:58	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 04:58	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 04:58	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 04:58	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 04:58	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 04:58	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 04:58	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 04:58	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 04:58	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 04:58	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/06/11 04:58	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 04:58	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 04:58	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 04:58	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: MW-2

Date Collected: 04/29/11 14:30

Date Received: 04/30/11 10:50

## Lab Sample ID: 680-67898-10

Matrix: Water

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 04:58	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 04:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 04:58	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 04:58	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 04:58	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 04:58	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 04:58	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 04:58	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 04:58	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 04:58	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/06/11 04:58	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/06/11 04:58	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/06/11 04:58	1
<b>Tentatively Identified Compound</b>	<b>Est. Result</b>	<b>Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>RT</b>	<b>CAS No.</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Unknown	8.4	T J N	ug/L		2.01			05/06/11 04:58	1
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	93		70 - 130					05/06/11 04:58	1
Dibromofluoromethane	101		70 - 130					05/06/11 04:58	1
Toluene-d8 (Surr)	102		70 - 130					05/06/11 04:58	1

### Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5000	U	5000	1000	ug/L			05/06/11 17:37	200
Acetonitrile	8000	U	8000	2000	ug/L			05/06/11 17:37	200
Acrolein	4000	U	4000	1500	ug/L			05/06/11 17:37	200
Acrylonitrile	4000	U	4000	1400	ug/L			05/06/11 17:37	200
Allyl chloride	200	U	200	40	ug/L			05/06/11 17:37	200
Benzene	200	U	200	50	ug/L			05/06/11 17:37	200
Benzyl chloride	200	U	200	200	ug/L			05/06/11 17:37	200
Bromodichloromethane	200	U	200	50	ug/L			05/06/11 17:37	200
Bromoform	200	U	200	100	ug/L			05/06/11 17:37	200
Bromomethane	200	U	200	160	ug/L			05/06/11 17:37	200
2-Butanone	2000	U	2000	200	ug/L			05/06/11 17:37	200
Carbon disulfide	400	U	400	120	ug/L			05/06/11 17:37	200
Carbon tetrachloride	200	U	200	100	ug/L			05/06/11 17:37	200
Chlorobenzene	200	U	200	50	ug/L			05/06/11 17:37	200
Chloroethane	200	U	200	200	ug/L			05/06/11 17:37	200
Chloroform	200	U	200	28	ug/L			05/06/11 17:37	200
Chloromethane	200	U	200	66	ug/L			05/06/11 17:37	200
Chloroprene	200	U	200	60	ug/L			05/06/11 17:37	200
cis-1,2-Dichloroethene	200	U	200	30	ug/L			05/06/11 17:37	200
cis-1,3-Dichloropropene	200	U	200	22	ug/L			05/06/11 17:37	200
Dibromochloromethane	200	U	200	20	ug/L			05/06/11 17:37	200
1,2-Dibromo-3-Chloropropane	200	U	200	88	ug/L			05/06/11 17:37	200
1,2-Dibromoethane	200	U	200	50	ug/L			05/06/11 17:37	200
Dibromomethane	200	U	200	40	ug/L			05/06/11 17:37	200
Dichlorodifluoromethane	200	U	200	50	ug/L			05/06/11 17:37	200
1,1-Dichloroethane	200	U	200	50	ug/L			05/06/11 17:37	200
1,2-Dichloroethane	200	U	200	20	ug/L			05/06/11 17:37	200

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-2**

**Lab Sample ID: 680-67898-10**

Date Collected: 04/29/11 14:30

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	200	U	200	22	ug/L			05/06/11 17:37	200
1,2-Dichloropropane	200	U	200	26	ug/L			05/06/11 17:37	200
<b>Diethyl ether</b>	<b>10000</b>	<b>D</b>	2000	200	ug/L			05/06/11 17:37	200
Ethylbenzene	200	U	200	22	ug/L			05/06/11 17:37	200
Ethylene oxide	40000	U	40000	40000	ug/L			05/06/11 17:37	200
Ethyl methacrylate	200	U	200	50	ug/L			05/06/11 17:37	200
2-Hexanone	2000	U	2000	200	ug/L			05/06/11 17:37	200
Iodomethane	1000	U	1000	200	ug/L			05/06/11 17:37	200
Isobutyl alcohol	8000	U	8000	2200	ug/L			05/06/11 17:37	200
Methacrylonitrile	4000	U	4000	660	ug/L			05/06/11 17:37	200
Methylene Chloride	1000	U	1000	200	ug/L			05/06/11 17:37	200
Methyl methacrylate	200	U	200	96	ug/L			05/06/11 17:37	200
4-Methyl-2-pentanone (MIBK)	2000	U	2000	200	ug/L			05/06/11 17:37	200
Methyl tert-butyl ether	2000	U	2000	40	ug/L			05/06/11 17:37	200
n-Heptane	200	U	200	84	ug/L			05/06/11 17:37	200
Pentachloroethane	1000	U	1000	240	ug/L			05/06/11 17:37	200
Propionitrile	4000	U	4000	920	ug/L			05/06/11 17:37	200
Propylene oxide	40000	U	40000	40000	ug/L			05/06/11 17:37	200
Styrene	200	U	200	22	ug/L			05/06/11 17:37	200
t-Butanol	1000	U	1000	520	ug/L			05/06/11 17:37	200
1,1,1,2-Tetrachloroethane	200	U	200	66	ug/L			05/06/11 17:37	200
1,1,2,2-Tetrachloroethane	200	U	200	36	ug/L			05/06/11 17:37	200
Tetrachloroethene	200	U	200	30	ug/L			05/06/11 17:37	200
Toluene	200	U	200	66	ug/L			05/06/11 17:37	200
trans-1,4-Dichloro-2-butene	400	U	400	100	ug/L			05/06/11 17:37	200
trans-1,2-Dichloroethene	200	U	200	40	ug/L			05/06/11 17:37	200
trans-1,3-Dichloropropene	200	U	200	42	ug/L			05/06/11 17:37	200
1,2,3-Trichlorobenzene	200	U	200	70	ug/L			05/06/11 17:37	200
1,1,1-Trichloroethane	200	U	200	100	ug/L			05/06/11 17:37	200
1,1,2-Trichloroethane	200	U	200	26	ug/L			05/06/11 17:37	200
Trichloroethylene	200	U	200	26	ug/L			05/06/11 17:37	200
Trichlorofluoromethane	200	U	200	50	ug/L			05/06/11 17:37	200
1,2,3-Trichloropropane	200	U	200	82	ug/L			05/06/11 17:37	200
Vinyl acetate	400	U	400	56	ug/L			05/06/11 17:37	200
Vinyl chloride	200	U	200	36	ug/L			05/06/11 17:37	200
Xylenes, Total	400	U	400	40	ug/L			05/06/11 17:37	200

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Naphthalene, 1-methyl-	3400	T J N	ug/L		6.58	90-12-0		05/06/11 17:37	200

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		70 - 130		05/06/11 17:37	200
Dibromofluoromethane	99		70 - 130		05/06/11 17:37	200
Toluene-d8 (Surf)	103		70 - 130		05/06/11 17:37	200

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-2**

**Lab Sample ID: 680-67898-10**

Date Collected: 04/29/11 14:30

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Aminobiphenyl	4.7	U	4.7	0.29	ug/L		05/06/11 14:51	06/02/11 18:09	1
Aniline	1.9	U	1.9	0.92	ug/L		05/06/11 14:51	06/02/11 18:09	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Aramite, Total	1.4	U	1.4	0.10	ug/L		05/06/11 14:51	06/02/11 18:09	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
<b>Bis(2-chloroethyl)ether</b>	<b>0.22</b>	<b>J</b>	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/06/11 14:51	06/02/11 18:09	1
Diallate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
<b>1,4-Dichlorobenzene</b>	<b>0.29</b>	<b>J B</b>	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		05/06/11 14:51	06/02/11 18:09	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 18:09	1
3,3'-Dimethylbenzidine	19	U	19	4.7	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,4-Dimethylphenol	1.9	U	1.9	0.65	ug/L		05/06/11 14:51	06/02/11 18:09	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/06/11 14:51	06/02/11 18:09	1
4,6-Dinitro-2-methylphenol	4.7	U	4.7	0.12	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:09	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 18:09	1
<b>1,4-Dioxane</b>	<b>21</b>		1.9	0.29	ug/L		05/06/11 14:51	06/02/11 18:09	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Famphur	0.95	U *	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 18:09	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-2**

**Lab Sample ID: 680-67898-10**

Date Collected: 04/29/11 14:30

Matrix: Water

Date Received: 04/30/11 10:50

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1
Hexachloroethane	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1
Hexachlorophene	470	U *	470	24	ug/L		05/06/11 14:51	06/02/11 18:09	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 18:09	1
3-Methylcholanthrene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Methylphenol	1.9	U	1.9	0.70	ug/L		05/06/11 14:51	06/02/11 18:09	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 18:09	1
1-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Naphthalenamine	4.7	U	4.7	1.2	ug/L		05/06/11 14:51	06/02/11 18:09	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,4-Naphthoquinone	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 18:09	1
3-Nitroaniline	4.7	U	4.7	0.15	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Nitroaniline	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Nitrophenol	4.7	U	4.7	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.0	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
o,o',o"-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:09	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
p-Dimethylamino azobenzene	4.7	U	4.7	0.14	ug/L		05/06/11 14:51	06/02/11 18:09	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Pentachloronitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1
Pentachlorophenol	4.7	U	4.7	0.38	ug/L		05/06/11 14:51	06/02/11 18:09	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Phenol	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:09	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: MW-2

Date Collected: 04/29/11 14:30

Date Received: 04/30/11 10:50

## Lab Sample ID: 680-67898-10

Matrix: Water

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 18:09	1
p-Phenylenediamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 18:09	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Pyridine	4.7	U	4.7	0.69	ug/L		05/06/11 14:51	06/02/11 18:09	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 18:09	1
Sulfonepp	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:09	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 18:09	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.47	ug/L		05/06/11 14:51	06/02/11 18:09	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown Aldol Condensate	8.1	T A J	ug/L		2.90		05/06/11 14:51	06/02/11 18:09	1
Unknown	9.3	T J	ug/L		4.09		05/06/11 14:51	06/02/11 18:09	1
Unknown	6.2	T J	ug/L		4.87		05/06/11 14:51	06/02/11 18:09	1
Unknown	100	T J	ug/L		5.32		05/06/11 14:51	06/02/11 18:09	1
Unknown	4.8	T J	ug/L		6.09		05/06/11 14:51	06/02/11 18:09	1
Unknown	5.6	T J	ug/L		6.53		05/06/11 14:51	06/02/11 18:09	1
Unknown	91	T J	ug/L		7.10		05/06/11 14:51	06/02/11 18:09	1
Unknown	49	T J	ug/L		8.66		05/06/11 14:51	06/02/11 18:09	1
Unknown	12	T J	ug/L		10.07		05/06/11 14:51	06/02/11 18:09	1
Unknown Organic Acid	4.0	T J	ug/L		11.22		05/06/11 14:51	06/02/11 18:09	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	67		34 - 130	05/06/11 14:51	06/02/11 18:09	1
2-Fluorophenol	61		25 - 130	05/06/11 14:51	06/02/11 18:09	1
Nitrobenzene-d5	57		32 - 130	05/06/11 14:51	06/02/11 18:09	1
Phenol-d5	41		27 - 130	05/06/11 14:51	06/02/11 18:09	1
Terphenyl-d14	71		36 - 130	05/06/11 14:51	06/02/11 18:09	1
2,4,6-Tribromophenol	73		30 - 130	05/06/11 14:51	06/02/11 18:09	1

### Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U *	1000	220	ug/L		05/13/11 21:08		1
Ethanol	1000	U	1000	330	ug/L		05/13/11 04:45		1
Isopropanol	1000	U	1000	300	ug/L		05/13/11 04:45		1
Methanol	120000		2000	1700	ug/L		05/13/11 11:59		2

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	840		100	50	ug/L		05/05/11 11:21	05/11/11 08:45	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:45	1
Arsenic	4.0		2.5	1.3	ug/L		05/05/11 11:21	05/11/11 08:45	1
Barium	180		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 08:45	1
Beryllium	0.63		0.50	0.15	ug/L		05/05/11 11:21	05/11/11 08:45	1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: MW-2

Date Collected: 04/29/11 14:30

Date Received: 04/30/11 10:50

## Lab Sample ID: 680-67898-10

Matrix: Water

### Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.16	J	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 08:45	1
Calcium	260000		500	170	ug/L		05/05/11 11:21	05/11/11 08:45	1
Chromium	3.4	J	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 08:45	1
Cobalt	33		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 08:45	1
Copper	12		5.0	1.1	ug/L		05/05/11 11:21	05/11/11 08:45	1
Iron	150000		100	44	ug/L		05/05/11 11:21	05/11/11 08:45	1
Lead	0.60	J	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 08:45	1
Magnesium	88000		250	100	ug/L		05/05/11 11:21	05/11/11 08:45	1
Manganese	9600		10	4.0	ug/L		05/05/11 11:21	05/12/11 13:54	2
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 08:45	1
Nickel	7.5		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:45	1
Potassium	5000	B	1000	330	ug/L		05/05/11 11:21	05/11/11 08:45	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 08:45	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 08:45	1
Sodium	380000		500	170	ug/L		05/05/11 11:21	05/11/11 08:45	1
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 08:45	1
Vanadium	3.8	J	10	3.2	ug/L		05/05/11 11:21	05/11/11 08:45	1
Zinc	31		20	8.4	ug/L		05/05/11 11:21	05/11/11 08:45	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000000		20000	3600	ug/L		05/21/11 12:49		20
Nitrogen, Kjeldahl	990		200	150	ug/L		05/17/11 11:00	05/18/11 15:27	1
Nitrate as N	150		50	10	ug/L			04/30/11 22:33	1
Nitrite as N	50	U	50	10	ug/L			04/30/11 22:33	1
Sulfate	420000		100000	50000	ug/L			05/23/11 12:42	20
Total Organic Carbon	4800		1000	500	ug/L			05/17/11 22:28	1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: TRIP BLANK 4

## Lab Sample ID: 680-67898-11

Matrix: Water

Date Collected: 04/29/11 00:00

Date Received: 04/30/11 10:50

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 14:56	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 14:56	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 14:56	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 14:56	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 14:56	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 14:56	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 14:56	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 14:56	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 14:56	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 14:56	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 14:56	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 14:56	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 14:56	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 14:56	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 14:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 14:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 14:56	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 14:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 14:56	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 14:56	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 14:56	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 14:56	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 14:56	1
Diethyl ether	10	U	10	1.0	ug/L			05/04/11 14:56	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 14:56	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 14:56	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 14:56	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 14:56	1
Isobutyl alcohol	40	U	40	11	ug/L			05/04/11 14:56	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 14:56	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 14:56	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 14:56	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 14:56	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 14:56	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 14:56	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 14:56	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 14:56	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 14:56	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 14:56	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/04/11 14:56	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 14:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 14:56	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 14:56	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: TRIP BLANK 4

## Lab Sample ID: 680-67898-11

Matrix: Water

Date Collected: 04/29/11 00:00

Date Received: 04/30/11 10:50

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/04/11 14:56	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/04/11 14:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/04/11 14:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/04/11 14:56	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/04/11 14:56	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/04/11 14:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/04/11 14:56	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/04/11 14:56	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 14:56	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/04/11 14:56	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/04/11 14:56	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/04/11 14:56	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/04/11 14:56	1

### Tentatively Identified Compound

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	None		ug/L					05/04/11 14:56	1

### Surrogate

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		70 - 130		05/04/11 14:56	1
Dibromofluoromethane	101		70 - 130		05/04/11 14:56	1
Toluene-d8 (Surf)	102		70 - 130		05/04/11 14:56	1

### Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U *	1000	220	ug/L			05/13/11 21:32	1
Ethanol	1000	U H	1000	330	ug/L			06/07/11 16:31	1
Isopropanol	1000	U H	1000	300	ug/L			06/07/11 16:31	1
Methanol	1000	U H	1000	830	ug/L			06/07/11 16:31	1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: MW-1**

**Lab Sample ID: 680-67948-1**

Date Collected: 05/02/11 09:25

Matrix: Water

Date Received: 05/03/11 11:28

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/07/11 15:55	1
Acetonitrile	40	U	40	10	ug/L			05/07/11 15:55	1
Acrolein	20	U	20	7.4	ug/L			05/07/11 15:55	1
Acrylonitrile	20	U	20	7.2	ug/L			05/07/11 15:55	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/07/11 15:55	1
Benzene	1.0	U	1.0	0.25	ug/L			05/07/11 15:55	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/07/11 15:55	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:55	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/07/11 15:55	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/07/11 15:55	1
2-Butanone	10	U	10	1.0	ug/L			05/07/11 15:55	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/07/11 15:55	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/07/11 15:55	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/11 15:55	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/07/11 15:55	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/07/11 15:55	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/07/11 15:55	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/07/11 15:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/07/11 15:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/07/11 15:55	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/07/11 15:55	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/07/11 15:55	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:55	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/07/11 15:55	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:55	1
<b>1,1-Dichloroethane</b>	<b>0.95</b>	<b>J</b>	1.0	0.25	ug/L			05/07/11 15:55	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/07/11 15:55	1
<b>1,1-Dichloroethene</b>	<b>0.39</b>	<b>J</b>	1.0	0.11	ug/L			05/07/11 15:55	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/07/11 15:55	1
<b>Diethyl ether</b>	<b>1600</b>	<b>E</b>	10	1.0	ug/L			05/07/11 15:55	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/07/11 15:55	1
Ethylene oxide	200	U	200	200	ug/L			05/07/11 15:55	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/07/11 15:55	1
2-Hexanone	10	U	10	1.0	ug/L			05/07/11 15:55	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/07/11 15:55	1
Isobutyl alcohol	40	U	40	11	ug/L			05/07/11 15:55	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/07/11 15:55	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/07/11 15:55	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/07/11 15:55	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/07/11 15:55	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/07/11 15:55	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/07/11 15:55	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/07/11 15:55	1
Propionitrile	20	U	20	4.6	ug/L			05/07/11 15:55	1
Propylene oxide	200	U	200	200	ug/L			05/07/11 15:55	1
Styrene	1.0	U	1.0	0.11	ug/L			05/07/11 15:55	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/07/11 15:55	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/07/11 15:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/07/11 15:55	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/07/11 15:55	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: MW-1

## Lab Sample ID: 680-67948-1

Matrix: Water

Date Collected: 05/02/11 09:25

Date Received: 05/03/11 11:28

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/07/11 15:55	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/07/11 15:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/07/11 15:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/07/11 15:55	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/07/11 15:55	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/07/11 15:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/07/11 15:55	1
<b>Trichloroethylene</b>	<b>0.15</b>	<b>J</b>	1.0	0.13	ug/L			05/07/11 15:55	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:55	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/07/11 15:55	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/07/11 15:55	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/07/11 15:55	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/07/11 15:55	1
<b>Tentatively Identified Compound</b>	<b>Est. Result</b>	<b>Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>RT</b>	<b>CAS No.</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tentatively Identified Compound	None		ug/L					05/07/11 15:55	1
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	95		70 - 130					05/07/11 15:55	1
Dibromofluoromethane	99		70 - 130					05/07/11 15:55	1
Toluene-d8 (Surr)	104		70 - 130					05/07/11 15:55	1

### Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1200	U	1200	250	ug/L			05/08/11 17:04	50
Acetonitrile	2000	U	2000	500	ug/L			05/08/11 17:04	50
Acrolein	1000	U	1000	370	ug/L			05/08/11 17:04	50
Acrylonitrile	1000	U	1000	360	ug/L			05/08/11 17:04	50
Allyl chloride	50	U	50	10	ug/L			05/08/11 17:04	50
Benzene	50	U	50	12	ug/L			05/08/11 17:04	50
Benzyl chloride	50	U	50	50	ug/L			05/08/11 17:04	50
Bromodichloromethane	50	U	50	12	ug/L			05/08/11 17:04	50
Bromoform	50	U	50	25	ug/L			05/08/11 17:04	50
Bromomethane	50	U	50	40	ug/L			05/08/11 17:04	50
2-Butanone	500	U	500	50	ug/L			05/08/11 17:04	50
Carbon disulfide	100	U	100	30	ug/L			05/08/11 17:04	50
Carbon tetrachloride	50	U	50	25	ug/L			05/08/11 17:04	50
Chlorobenzene	50	U	50	12	ug/L			05/08/11 17:04	50
Chloroethane	50	U	50	50	ug/L			05/08/11 17:04	50
Chloroform	50	U	50	7.0	ug/L			05/08/11 17:04	50
Chloromethane	50	U	50	16	ug/L			05/08/11 17:04	50
Chloroprene	50	U	50	15	ug/L			05/08/11 17:04	50
cis-1,2-Dichloroethene	50	U	50	7.5	ug/L			05/08/11 17:04	50
cis-1,3-Dichloropropene	50	U	50	5.5	ug/L			05/08/11 17:04	50
Dibromochloromethane	50	U	50	5.0	ug/L			05/08/11 17:04	50
1,2-Dibromo-3-Chloropropane	50	U	50	22	ug/L			05/08/11 17:04	50
1,2-Dibromoethane	50	U	50	12	ug/L			05/08/11 17:04	50
Dibromomethane	50	U	50	10	ug/L			05/08/11 17:04	50
Dichlorodifluoromethane	50	U	50	12	ug/L			05/08/11 17:04	50
1,1-Dichloroethane	50	U	50	12	ug/L			05/08/11 17:04	50
1,2-Dichloroethane	50	U	50	5.0	ug/L			05/08/11 17:04	50

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: MW-1

## Lab Sample ID: 680-67948-1

Matrix: Water

Date Collected: 05/02/11 09:25

Date Received: 05/03/11 11:28

### Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	50	U	50	5.5	ug/L			05/08/11 17:04	50
1,2-Dichloropropane	50	U	50	6.5	ug/L			05/08/11 17:04	50
<b>Diethyl ether</b>	<b>1700</b>	<b>D</b>	500	50	ug/L			05/08/11 17:04	50
Ethylbenzene	50	U	50	5.5	ug/L			05/08/11 17:04	50
Ethylene oxide	10000	U	10000	10000	ug/L			05/08/11 17:04	50
Ethyl methacrylate	50	U	50	12	ug/L			05/08/11 17:04	50
2-Hexanone	500	U	500	50	ug/L			05/08/11 17:04	50
Iodomethane	250	U	250	50	ug/L			05/08/11 17:04	50
Isobutyl alcohol	2000	U	2000	550	ug/L			05/08/11 17:04	50
Methacrylonitrile	1000	U	1000	160	ug/L			05/08/11 17:04	50
Methylene Chloride	250	U	250	50	ug/L			05/08/11 17:04	50
Methyl methacrylate	50	U	50	24	ug/L			05/08/11 17:04	50
4-Methyl-2-pentanone (MIBK)	500	U	500	50	ug/L			05/08/11 17:04	50
Methyl tert-butyl ether	500	U	500	10	ug/L			05/08/11 17:04	50
n-Heptane	50	U	50	21	ug/L			05/08/11 17:04	50
Pentachloroethane	250	U	250	60	ug/L			05/08/11 17:04	50
Propionitrile	1000	U	1000	230	ug/L			05/08/11 17:04	50
Propylene oxide	10000	U	10000	10000	ug/L			05/08/11 17:04	50
Styrene	50	U	50	5.5	ug/L			05/08/11 17:04	50
t-Butanol	250	U	250	130	ug/L			05/08/11 17:04	50
1,1,1,2-Tetrachloroethane	50	U	50	16	ug/L			05/08/11 17:04	50
1,1,2,2-Tetrachloroethane	50	U	50	9.0	ug/L			05/08/11 17:04	50
Tetrachloroethene	50	U	50	7.5	ug/L			05/08/11 17:04	50
Toluene	50	U	50	16	ug/L			05/08/11 17:04	50
trans-1,4-Dichloro-2-butene	100	U	100	25	ug/L			05/08/11 17:04	50
trans-1,2-Dichloroethene	50	U	50	10	ug/L			05/08/11 17:04	50
trans-1,3-Dichloropropene	50	U	50	10	ug/L			05/08/11 17:04	50
1,2,3-Trichlorobenzene	50	U	50	18	ug/L			05/08/11 17:04	50
1,1,1-Trichloroethane	50	U	50	25	ug/L			05/08/11 17:04	50
1,1,2-Trichloroethane	50	U	50	6.5	ug/L			05/08/11 17:04	50
Trichloroethylene	50	U	50	6.5	ug/L			05/08/11 17:04	50
Trichlorofluoromethane	50	U	50	12	ug/L			05/08/11 17:04	50
1,2,3-Trichloropropane	50	U	50	20	ug/L			05/08/11 17:04	50
Vinyl acetate	100	U	100	14	ug/L			05/08/11 17:04	50
Vinyl chloride	50	U	50	9.0	ug/L			05/08/11 17:04	50
Xylenes, Total	100	U	100	10	ug/L			05/08/11 17:04	50

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					05/08/11 17:04	50

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		70 - 130			50
Dibromofluoromethane	98		70 - 130			50
Toluene-d8 (Surf)	104		70 - 130			50

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Acetophenone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Acetylaminofluorene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: MW-1

## Lab Sample ID: 680-67948-1

Matrix: Water

Date Collected: 05/02/11 09:25

Date Received: 05/03/11 11:28

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha,alpha-Dimethyl phenethylamine	9.5	U	9.5	3.2	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Aminobiphenyl	4.8	U	4.8	0.30	ug/L		05/06/11 14:51	06/02/11 18:37	1
Aniline	1.9	U	1.9	0.93	ug/L		05/06/11 14:51	06/02/11 18:37	1
Anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Aramite, Total	1.4	U	1.4	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Benzyl alcohol	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.61	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Chloroaniline	1.9	U	1.9	0.34	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Chrysene	0.19	U	0.19	0.043	ug/L		05/06/11 14:51	06/02/11 18:37	1
Diallate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,2-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,3-Dichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
<b>1,4-Dichlorobenzene</b>	<b>0.37</b>	<b>J B</b>	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,6-Dichlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Diethyl phthalate	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
Dimethoate	1.9	U	1.9	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
7,12-Dimethylbenz(a)anthracene	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 18:37	1
3,3'-Dimethylbenzidine	19	U	19	4.8	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,4-Dimethylphenol	1.9	U	1.9	0.66	ug/L		05/06/11 14:51	06/02/11 18:37	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		05/06/11 14:51	06/02/11 18:37	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.12	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,4-Dinitrophenol	9.5	U	9.5	1.1	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:37	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 18:37	1
<b>1,4-Dioxane</b>	<b>9.6</b>		1.9	0.30	ug/L		05/06/11 14:51	06/02/11 18:37	1
Disulfoton	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Ethyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Ethyl Parathion	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Famphur	0.95	U *	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 18:37	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: MW-1

## Lab Sample ID: 680-67948-1

Matrix: Water

Date Collected: 05/02/11 09:25

Date Received: 05/03/11 11:28

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1
Hexachlorophene	480	U *	480	24	ug/L		05/06/11 14:51	06/02/11 18:37	1
Hexachloropropene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Isophorone	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Isosafrole	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
m-Dinitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Methapyrilene	190	U	190	1.2	ug/L		05/06/11 14:51	06/02/11 18:37	1
3-Methylcholanthrene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1
Methyl methanesulfonate	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Methyl parathion	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		05/06/11 14:51	06/02/11 18:37	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		05/06/11 14:51	06/02/11 18:37	1
1-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Naphthalenamine	4.8	U	4.8	1.2	ug/L		05/06/11 14:51	06/02/11 18:37	1
Naphthalene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,4-Naphthoquinone	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		05/06/11 14:51	06/02/11 18:37	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
5-Nitro-o-toluidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Nitrophenol	4.8	U	4.8	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1
4-Nitroquinoline-1-oxide	1.9	U	1.9	1.1	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosodiethylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosodimethylamine	0.95	U	0.95	0.24	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosodi-n-butylamine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosomethylethylamine	1.9	U	1.9	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosomorpholine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosopiperidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
N-Nitrosopyrrolidine	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
o,o',o"-Triethylphosphorothioate	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:37	1
o-Toluidine	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
p-Dimethylamino azobenzene	4.8	U	4.8	0.14	ug/L		05/06/11 14:51	06/02/11 18:37	1
Pentachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Pentachloronitrobenzene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		05/06/11 14:51	06/02/11 18:37	1
Phenacetin	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Phenol	0.95	U	0.95	0.12	ug/L		05/06/11 14:51	06/02/11 18:37	1
Phenyl ether	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: MW-1

Date Collected: 05/02/11 09:25

Date Received: 05/03/11 11:28

## Lab Sample ID: 680-67948-1

Matrix: Water

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-Picoline	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 18:37	1
p-Phenylenediamine	190	U	190	15	ug/L		05/06/11 14:51	06/02/11 18:37	1
Pronamide	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
Pyrene	0.19	U	0.19	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Pyridine	4.8	U	4.8	0.70	ug/L		05/06/11 14:51	06/02/11 18:37	1
Safrole, Total	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2-sec-Butyl-4,6-dinitrophenol	1.9	U	1.9	0.14	ug/L		05/06/11 14:51	06/02/11 18:37	1
Sulfoteppe	0.95	U	0.95	0.13	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,2,4,5-Tetrachlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,3,4,6-Tetrachlorophenol	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
Thionazin	0.95	U	0.95	0.19	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,2,4-Trichlorobenzene	0.95	U	0.95	0.095	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		05/06/11 14:51	06/02/11 18:37	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		05/06/11 14:51	06/02/11 18:37	1
1,3,5-Trinitrobenzene	0.95	U	0.95	0.48	ug/L		05/06/11 14:51	06/02/11 18:37	1

### Tentatively Identified Compound

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown Aldol Condensate	2.6	T A J	ug/L		2.95		05/06/11 14:51	06/02/11 18:37	1
Unknown	1.5	T J	ug/L		5.23		05/06/11 14:51	06/02/11 18:37	1
Unknown	1.1	T J	ug/L		5.47		05/06/11 14:51	06/02/11 18:37	1
Unknown	40	T J	ug/L		7.09		05/06/11 14:51	06/02/11 18:37	1
Diethyltoluamide	2.0	T J N	ug/L		8.45	134-62-3	05/06/11 14:51	06/02/11 18:37	1
Unknown	4.2	T J	ug/L		8.65		05/06/11 14:51	06/02/11 18:37	1
Sulfur, mol. (S8)	7.6	T J N	ug/L		10.98	10544-50-0	05/06/11 14:51	06/02/11 18:37	1
Oleic Acid	5.2	T J N	ug/L		11.22	112-80-1	05/06/11 14:51	06/02/11 18:37	1
Unknown	3.8	T J	ug/L		11.43		05/06/11 14:51	06/02/11 18:37	1
Octadecanoic acid, 2-methylpropyl ester	2.8	T J N	ug/L		12.28	646-13-9	05/06/11 14:51	06/02/11 18:37	1

### Surrogate

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
2-Fluorobiphenyl	66		34 - 130		05/06/11 14:51	06/02/11 18:37	1
2-Fluorophenol	58		25 - 130		05/06/11 14:51	06/02/11 18:37	1
Nitrobenzene-d5	58		32 - 130		05/06/11 14:51	06/02/11 18:37	1
Phenol-d5	49		27 - 130		05/06/11 14:51	06/02/11 18:37	1
Terphenyl-d14	73		36 - 130		05/06/11 14:51	06/02/11 18:37	1
2,4,6-Tribromophenol	74		30 - 130		05/06/11 14:51	06/02/11 18:37	1

### Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U H	1000	220	ug/L		05/26/11 16:00		1
Ethanol	1700	H	1000	330	ug/L			05/17/11 17:26	1
Isopropanol	1000	U H	1000	300	ug/L			05/17/11 17:26	1
Methanol	1000	U H	1000	830	ug/L			05/17/11 17:26	1

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	60	J	100	50	ug/L		05/05/11 11:21	05/11/11 08:52	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:52	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/05/11 11:21	05/11/11 08:52	1
Barium	65		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 08:52	1
Beryllium	0.16	J	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 08:52	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: MW-1

Lab Sample ID: 680-67948-1

Date Collected: 05/02/11 09:25

Matrix: Water

Date Received: 05/03/11 11:28

### Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 08:52	1
Calcium	180000		500	170	ug/L		05/05/11 11:21	05/11/11 08:52	1
Chromium	14		5.0	2.5	ug/L		05/05/11 11:21	05/11/11 08:52	1
Cobalt	1.1		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 08:52	1
Copper	10		5.0	1.1	ug/L		05/05/11 11:21	05/11/11 08:52	1
Iron	8600		100	44	ug/L		05/05/11 11:21	05/11/11 08:52	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 08:52	1
Magnesium	50000		250	100	ug/L		05/05/11 11:21	05/11/11 08:52	1
Manganese	3000		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:52	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 08:52	1
Nickel	9.5		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:52	1
Potassium	4400	B	1000	330	ug/L		05/05/11 11:21	05/11/11 08:52	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 08:52	1
Silver	0.36	J	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 08:52	1
Sodium	260000		500	170	ug/L		05/05/11 11:21	05/11/11 08:52	1
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 08:52	1
Vanadium	10	U	10	3.2	ug/L		05/05/11 11:21	05/11/11 08:52	1
Zinc	31		20	8.4	ug/L		05/05/11 11:21	05/11/11 08:52	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	220000		5000	900	ug/L		05/21/11 12:55		5
Nitrogen, Kjeldahl	280		200	150	ug/L		05/17/11 11:00	05/18/11 15:27	1
Nitrate as N	19	J	50	10	ug/L			05/03/11 18:30	1
Nitrite as N	50	U	50	10	ug/L			05/03/11 18:30	1
Sulfate	710000		250000	120000	ug/L			05/23/11 12:42	50
Total Organic Carbon	3700		1000	500	ug/L			05/17/11 22:46	1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: NAT-4**

**Lab Sample ID: 680-67948-2**

Date Collected: 05/02/11 09:55

Matrix: Water

Date Received: 05/03/11 11:28

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>6.1</b>	<b>J</b>	25	5.0	ug/L			05/07/11 16:24	1
Acetonitrile	40	U	40	10	ug/L			05/07/11 16:24	1
Acrolein	20	U	20	7.4	ug/L			05/07/11 16:24	1
Acrylonitrile	20	U	20	7.2	ug/L			05/07/11 16:24	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/07/11 16:24	1
Benzene	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/07/11 16:24	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/07/11 16:24	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/07/11 16:24	1
2-Butanone	10	U	10	1.0	ug/L			05/07/11 16:24	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/07/11 16:24	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/07/11 16:24	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/07/11 16:24	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/07/11 16:24	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/07/11 16:24	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/07/11 16:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/07/11 16:24	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/07/11 16:24	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/07/11 16:24	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/07/11 16:24	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/07/11 16:24	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/07/11 16:24	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/07/11 16:24	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/07/11 16:24	1
<b>Diethyl ether</b>	<b>1.4</b>	<b>J</b>	10	1.0	ug/L			05/07/11 16:24	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/07/11 16:24	1
Ethylene oxide	200	U	200	200	ug/L			05/07/11 16:24	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
2-Hexanone	10	U	10	1.0	ug/L			05/07/11 16:24	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/07/11 16:24	1
Isobutyl alcohol	40	U	40	11	ug/L			05/07/11 16:24	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/07/11 16:24	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/07/11 16:24	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/07/11 16:24	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/07/11 16:24	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/07/11 16:24	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/07/11 16:24	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/07/11 16:24	1
Propionitrile	20	U	20	4.6	ug/L			05/07/11 16:24	1
Propylene oxide	200	U	200	200	ug/L			05/07/11 16:24	1
Styrene	1.0	U	1.0	0.11	ug/L			05/07/11 16:24	1
<b>t-Butanol</b>	<b>370</b>	<b>E</b>	5.0	2.6	ug/L			05/07/11 16:24	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/07/11 16:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/07/11 16:24	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/07/11 16:24	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: NAT-4

## Lab Sample ID: 680-67948-2

Matrix: Water

Date Collected: 05/02/11 09:55

Date Received: 05/03/11 11:28

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/07/11 16:24	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/07/11 16:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/07/11 16:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/07/11 16:24	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/07/11 16:24	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/07/11 16:24	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/07/11 16:24	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/07/11 16:24	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/07/11 16:24	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/07/11 16:24	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/07/11 16:24	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/07/11 16:24	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/07/11 16:24	1
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					05/07/11 16:24	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		70 - 130					05/07/11 16:24	1
Dibromofluoromethane	101		70 - 130					05/07/11 16:24	1
Toluene-d8 (Surr)	103		70 - 130					05/07/11 16:24	1

### Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	250	U	250	50	ug/L			05/08/11 17:32	10
Acetonitrile	400	U	400	100	ug/L			05/08/11 17:32	10
Acrolein	200	U	200	74	ug/L			05/08/11 17:32	10
Acrylonitrile	200	U	200	72	ug/L			05/08/11 17:32	10
Allyl chloride	10	U	10	2.0	ug/L			05/08/11 17:32	10
Benzene	10	U	10	2.5	ug/L			05/08/11 17:32	10
Benzyl chloride	10	U	10	10	ug/L			05/08/11 17:32	10
Bromodichloromethane	10	U	10	2.5	ug/L			05/08/11 17:32	10
Bromoform	10	U	10	5.0	ug/L			05/08/11 17:32	10
Bromomethane	10	U	10	8.0	ug/L			05/08/11 17:32	10
2-Butanone	100	U	100	10	ug/L			05/08/11 17:32	10
Carbon disulfide	20	U	20	6.0	ug/L			05/08/11 17:32	10
Carbon tetrachloride	10	U	10	5.0	ug/L			05/08/11 17:32	10
Chlorobenzene	10	U	10	2.5	ug/L			05/08/11 17:32	10
Chloroethane	10	U	10	10	ug/L			05/08/11 17:32	10
Chloroform	10	U	10	1.4	ug/L			05/08/11 17:32	10
Chloromethane	10	U	10	3.3	ug/L			05/08/11 17:32	10
Chloroprene	10	U	10	3.0	ug/L			05/08/11 17:32	10
cis-1,2-Dichloroethene	10	U	10	1.5	ug/L			05/08/11 17:32	10
cis-1,3-Dichloropropene	10	U	10	1.1	ug/L			05/08/11 17:32	10
Dibromochloromethane	10	U	10	1.0	ug/L			05/08/11 17:32	10
1,2-Dibromo-3-Chloropropane	10	U	10	4.4	ug/L			05/08/11 17:32	10
1,2-Dibromoethane	10	U	10	2.5	ug/L			05/08/11 17:32	10
Dibromomethane	10	U	10	2.0	ug/L			05/08/11 17:32	10
Dichlorodifluoromethane	10	U	10	2.5	ug/L			05/08/11 17:32	10
1,1-Dichloroethane	10	U	10	2.5	ug/L			05/08/11 17:32	10
1,2-Dichloroethane	10	U	10	1.0	ug/L			05/08/11 17:32	10

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: NAT-4**

**Lab Sample ID: 680-67948-2**

**Matrix: Water**

Date Collected: 05/02/11 09:55

Date Received: 05/03/11 11:28

## Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	10	U	10	1.1	ug/L			05/08/11 17:32	10
1,2-Dichloropropane	10	U	10	1.3	ug/L			05/08/11 17:32	10
Diethyl ether	100	U	100	10	ug/L			05/08/11 17:32	10
Ethylbenzene	10	U	10	1.1	ug/L			05/08/11 17:32	10
Ethylene oxide	2000	U	2000	2000	ug/L			05/08/11 17:32	10
Ethyl methacrylate	10	U	10	2.5	ug/L			05/08/11 17:32	10
2-Hexanone	100	U	100	10	ug/L			05/08/11 17:32	10
Iodomethane	50	U	50	10	ug/L			05/08/11 17:32	10
Isobutyl alcohol	400	U	400	110	ug/L			05/08/11 17:32	10
Methacrylonitrile	200	U	200	33	ug/L			05/08/11 17:32	10
Methylene Chloride	50	U	50	10	ug/L			05/08/11 17:32	10
Methyl methacrylate	10	U	10	4.8	ug/L			05/08/11 17:32	10
4-Methyl-2-pentanone (MIBK)	100	U	100	10	ug/L			05/08/11 17:32	10
Methyl tert-butyl ether	100	U	100	2.0	ug/L			05/08/11 17:32	10
n-Heptane	10	U	10	4.2	ug/L			05/08/11 17:32	10
Pentachloroethane	50	U	50	12	ug/L			05/08/11 17:32	10
Propionitrile	200	U	200	46	ug/L			05/08/11 17:32	10
Propylene oxide	2000	U	2000	2000	ug/L			05/08/11 17:32	10
Styrene	10	U	10	1.1	ug/L			05/08/11 17:32	10
<b>t-Butanol</b>	<b>370</b>	<b>D</b>	50	26	ug/L			05/08/11 17:32	10
1,1,1,2-Tetrachloroethane	10	U	10	3.3	ug/L			05/08/11 17:32	10
1,1,2,2-Tetrachloroethane	10	U	10	1.8	ug/L			05/08/11 17:32	10
Tetrachloroethene	10	U	10	1.5	ug/L			05/08/11 17:32	10
Toluene	10	U	10	3.3	ug/L			05/08/11 17:32	10
trans-1,4-Dichloro-2-butene	20	U	20	5.0	ug/L			05/08/11 17:32	10
trans-1,2-Dichloroethene	10	U	10	2.0	ug/L			05/08/11 17:32	10
trans-1,3-Dichloropropene	10	U	10	2.1	ug/L			05/08/11 17:32	10
1,2,3-Trichlorobenzene	10	U	10	3.5	ug/L			05/08/11 17:32	10
1,1,1-Trichloroethane	10	U	10	5.0	ug/L			05/08/11 17:32	10
1,1,2-Trichloroethane	10	U	10	1.3	ug/L			05/08/11 17:32	10
Trichloroethylene	10	U	10	1.3	ug/L			05/08/11 17:32	10
Trichlorofluoromethane	10	U	10	2.5	ug/L			05/08/11 17:32	10
1,2,3-Trichloropropene	10	U	10	4.1	ug/L			05/08/11 17:32	10
Vinyl acetate	20	U	20	2.8	ug/L			05/08/11 17:32	10
Vinyl chloride	10	U	10	1.8	ug/L			05/08/11 17:32	10
Xylenes, Total	20	U	20	2.0	ug/L			05/08/11 17:32	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					05/08/11 17:32	10

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		70 - 130			10
Dibromofluoromethane	96		70 - 130			10
Toluene-d8 (Surf)	103		70 - 130			10

## Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U H	1000	220	ug/L			05/26/11 16:24	1
Ethanol	1000	U H	1000	330	ug/L			05/17/11 17:50	1
Isopropanol	1000	U H	1000	300	ug/L			05/17/11 17:50	1
Methanol	1000	U H	1000	830	ug/L			05/17/11 17:50	1

TestAmerica Savannah

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: NAT-4

## Lab Sample ID: 680-67948-2

Matrix: Water

Date Collected: 05/02/11 09:55

Date Received: 05/03/11 11:28

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	44000		100	50	ug/L		05/05/11 11:21	05/11/11 08:59	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:59	1
Arsenic	15		2.5	1.3	ug/L		05/05/11 11:21	05/11/11 08:59	1
Barium	230		5.0	1.4	ug/L		05/05/11 11:21	05/11/11 08:59	1
Beryllium	2.2		0.50	0.15	ug/L		05/05/11 11:21	05/11/11 08:59	1
Cadmium	0.20	J	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 08:59	1
Calcium	7900		500	170	ug/L		05/05/11 11:21	05/11/11 08:59	1
Chromium	78		5.0	2.5	ug/L		05/05/11 11:21	05/11/11 08:59	1
Cobalt	14		0.50	0.12	ug/L		05/05/11 11:21	05/11/11 08:59	1
Copper	60		5.0	1.1	ug/L		05/05/11 11:21	05/11/11 08:59	1
Iron	54000		100	44	ug/L		05/05/11 11:21	05/11/11 08:59	1
Lead	34		1.5	0.50	ug/L		05/05/11 11:21	05/11/11 08:59	1
Magnesium	6000		250	100	ug/L		05/05/11 11:21	05/11/11 08:59	1
Manganese	370		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:59	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 08:59	1
Nickel	27		5.0	2.0	ug/L		05/05/11 11:21	05/11/11 08:59	1
Potassium	2100	B	1000	330	ug/L		05/05/11 11:21	05/11/11 08:59	1
Selenium	1.2	J	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 08:59	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 08:59	1
Sodium	120000		500	170	ug/L		05/05/11 11:21	05/11/11 08:59	1
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 08:59	1
Vanadium	130		10	3.2	ug/L		05/05/11 11:21	05/11/11 08:59	1
Zinc	61		20	8.4	ug/L		05/05/11 11:21	05/11/11 08:59	1

### Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	170		50	23	ug/L		05/05/11 12:02	05/11/11 12:42	1
Antimony	5.0	U	5.0	2.3	ug/L		05/05/11 12:02	05/11/11 12:42	1
Arsenic	2.6		2.5	1.3	ug/L		05/05/11 12:02	05/11/11 12:42	1
Barium	39		5.0	1.3	ug/L		05/05/11 12:02	05/11/11 12:42	1
Beryllium	0.50	U	0.50	0.25	ug/L		05/05/11 12:02	05/11/11 12:42	1
Cadmium	0.50	U	0.50	0.095	ug/L		05/05/11 12:02	05/11/11 12:42	1
Calcium	24000		250	130	ug/L		05/05/11 12:02	05/11/11 12:42	1
Chromium	5.0	U	5.0	2.5	ug/L		05/05/11 12:02	05/11/11 12:42	1
Cobalt	0.73		0.50	0.15	ug/L		05/05/11 12:02	05/11/11 12:42	1
Copper	5.0	U	5.0	1.1	ug/L		05/05/11 12:02	05/11/11 12:42	1
Iron	4200		100	33	ug/L		05/05/11 12:02	05/11/11 12:42	1
Lead	0.26	J	1.5	0.20	ug/L		05/05/11 12:02	05/11/11 12:42	1
Magnesium	8900		250	43	ug/L		05/05/11 12:02	05/11/11 12:42	1
Manganese	520		5.0	1.0	ug/L		05/05/11 12:02	05/11/11 12:42	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 12:02	05/11/11 12:42	1
Nickel	5.2		5.0	2.0	ug/L		05/05/11 12:02	05/11/11 12:42	1
Potassium	1000		500	170	ug/L		05/05/11 12:02	05/11/11 12:42	1
Selenium	2.5	U	2.5	1.0	ug/L		05/05/11 12:02	05/11/11 12:42	1
Silver	1.0	U	1.0	0.25	ug/L		05/05/11 12:02	05/11/11 12:42	1
Sodium	140000		500	250	ug/L		05/05/11 12:02	05/11/11 12:42	1
Thallium	1.0	U	1.0	0.50	ug/L		05/05/11 12:02	05/11/11 12:42	1
Vanadium	5.0	J	10	3.8	ug/L		05/05/11 12:02	05/11/11 12:42	1
Zinc	14	J	20	8.3	ug/L		05/05/11 12:02	05/11/11 12:42	1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

**Client Sample ID: NAT-4**

**Lab Sample ID: 680-67948-2**

**Matrix: Water**

Date Collected: 05/02/11 09:55

Date Received: 05/03/11 11:28

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8700		2000	360	ug/L			05/21/11 13:04	2
Nitrogen, Kjeldahl	5500		400	300	ug/L		05/17/11 11:00	05/18/11 17:37	2
Nitrate as N	1100		50	10	ug/L			05/03/11 18:35	1
Nitrite as N	80		50	10	ug/L			05/03/11 18:35	1
Sulfate	51000		10000	5000	ug/L			05/23/11 12:40	2
Total Organic Carbon	9500		1000	500	ug/L			05/17/11 23:05	1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: Trip Blank

Date Collected: 05/02/11 00:00

Date Received: 05/03/11 11:28

## Lab Sample ID: 680-67948-3

Matrix: Water

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/07/11 15:26	1
Acetonitrile	40	U	40	10	ug/L			05/07/11 15:26	1
Acrolein	20	U	20	7.4	ug/L			05/07/11 15:26	1
Acrylonitrile	20	U	20	7.2	ug/L			05/07/11 15:26	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/07/11 15:26	1
Benzene	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/07/11 15:26	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/07/11 15:26	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/07/11 15:26	1
2-Butanone	10	U	10	1.0	ug/L			05/07/11 15:26	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/07/11 15:26	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/07/11 15:26	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/07/11 15:26	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/07/11 15:26	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/07/11 15:26	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/07/11 15:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/07/11 15:26	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/07/11 15:26	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/07/11 15:26	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/07/11 15:26	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/07/11 15:26	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/07/11 15:26	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/07/11 15:26	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/07/11 15:26	1
Diethyl ether	10	U	10	1.0	ug/L			05/07/11 15:26	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/07/11 15:26	1
Ethylene oxide	200	U	200	200	ug/L			05/07/11 15:26	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
2-Hexanone	10	U	10	1.0	ug/L			05/07/11 15:26	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/07/11 15:26	1
Isobutyl alcohol	40	U	40	11	ug/L			05/07/11 15:26	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/07/11 15:26	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/07/11 15:26	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/07/11 15:26	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/07/11 15:26	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/07/11 15:26	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/07/11 15:26	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/07/11 15:26	1
Propionitrile	20	U	20	4.6	ug/L			05/07/11 15:26	1
Propylene oxide	200	U	200	200	ug/L			05/07/11 15:26	1
Styrene	1.0	U	1.0	0.11	ug/L			05/07/11 15:26	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/07/11 15:26	1
1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/07/11 15:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/07/11 15:26	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/07/11 15:26	1

# Client Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Client Sample ID: Trip Blank

Lab Sample ID: 680-67948-3

Matrix: Water

Date Collected: 05/02/11 00:00

Date Received: 05/03/11 11:28

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.33	ug/L			05/07/11 15:26	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/07/11 15:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/07/11 15:26	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/07/11 15:26	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/07/11 15:26	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/07/11 15:26	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/07/11 15:26	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/07/11 15:26	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/07/11 15:26	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/07/11 15:26	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/07/11 15:26	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/07/11 15:26	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/07/11 15:26	1

### Tentatively Identified Compound

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	None		ug/L					05/07/11 15:26	1

### Surrogate

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		70 - 130		05/07/11 15:26	1
Dibromofluoromethane	103		70 - 130		05/07/11 15:26	1
Toluene-d8 (Surr)	103		70 - 130		05/07/11 15:26	1

# Surrogate Summary

Client: Ashland Inc.

TestAmerica Job ID: 680-67898-1

Project/Site: Aqualon Hopewell - GW CA APR 2011

SDG: HAQ036

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (70-130)	DBFM (70-130)	TOL (70-130)
680-67898-1	VFSP-MW-1	95	104	102
680-67898-2	MW-4	94	101	102
680-67898-2 - DL	MW-4	99	100	105
680-67898-2 MS	MW-4	94	94	96
680-67898-2 MSD	MW-4	98	99	101
680-67898-3	EQUIPMENT BLANK	96	103	101
680-67898-4	MW-4U	93	102	102
680-67898-4 - DL	MW-4U	97	102	105
680-67898-5	MW-9	95	101	103
680-67898-5 - DL	MW-9	95	99	104
680-67898-6	MW-5	95	103	101
680-67898-6 - DL	MW-5	98	98	103
680-67898-7	MW-5U	94	99	102
680-67898-7 - DL	MW-5U	98	98	103
680-67898-8	FIELD BLANK	94	105	101
680-67898-9	FIELD DUPLICATE	96	102	103
680-67898-9 - DL	FIELD DUPLICATE	97	99	104
680-67898-10	MW-2	93	101	102
680-67898-10 - DL	MW-2	100	99	103
680-67898-11	TRIP BLANK 4	97	101	102
680-67948-1	MW-1	95	99	104
680-67948-1 - DL	MW-1	97	98	104
680-67948-2	NAT-4	94	101	103
680-67948-2 - DL	NAT-4	97	96	103
680-67948-3	Trip Blank	96	103	103
LCS 680-201948/10	Lab Control Sample	100	98	103
LCS 680-202151/6	Lab Control Sample	95	96	98
LCS 680-202173/12	Lab Control Sample	101	99	102
LCS 680-202245/15	Lab Control Sample	102	101	103
LCS 680-202323/5	Lab Control Sample	101	99	102
LCSD 680-201948/11	Lab Control Sample Dup	104	100	105
LCSD 680-202151/8	Lab Control Sample Dup	98	96	101
LCSD 680-202173/13	Lab Control Sample Dup	102	96	102
LCSD 680-202245/16	Lab Control Sample Dup	101	97	101
LCSD 680-202323/6	Lab Control Sample Dup	100	98	102
MB 680-201948/13	Method Blank	95	104	100
MB 680-202151/7	Method Blank	95	101	100
MB 680-202173/15	Method Blank	95	102	102
MB 680-202245/18	Method Blank	97	102	102
MB 680-202323/8	Method Blank	95	103	102

### Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

# Surrogate Summary

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (34-130)	2FP (25-130)	NBZ (32-130)	PHL (27-130)	TPH (36-130)	TBP (30-130)
680-67898-2	MW-4	60	53	55	29	67	75
680-67898-2 MS	MW-4	50	43	42	42	50	62
680-67898-2 MSD	MW-4	62	57	52	38	59	63
680-67898-3	EQUIPMENT BLANK	41	60	41	49	51	51
680-67898-4	MW-4U	52	51	47	33	60	61
680-67898-5	MW-9	59	48	45	40	61	66
680-67898-6	MW-5	60	52	50	45	61	62
680-67898-7	MW-5U	55	57	53	46	52	62
680-67898-8	FIELD BLANK	56	63	55	48	66	56
680-67898-9	FIELD DUPLICATE	62	43	47	42	68	65
680-67898-10	MW-2	67	61	57	41	71	73
680-67948-1	MW-1	66	58	58	49	73	74
LCS 680-202119/12-A	Lab Control Sample	67	60	60	58	73	71
LCS 680-202119/15-A	Lab Control Sample	65	56	57	51	66	72
LCSD 680-202119/16-A	Lab Control Sample Dup	68	67	60	59	72	73
MB 680-202119/11-A	Method Blank	58	62	58	49	74	42

### Surrogate Legend

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPH = Terphenyl-d14

TBP = 2,4,6-Tribromophenol

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-201948/13

Matrix: Water

Analysis Batch: 201948

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			05/04/11 12:43	1
Acetonitrile	40	U	40	10	ug/L			05/04/11 12:43	1
Acrolein	20	U	20	7.4	ug/L			05/04/11 12:43	1
Acrylonitrile	20	U	20	7.2	ug/L			05/04/11 12:43	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/04/11 12:43	1
Benzene	1.0	U	1.0	0.25	ug/L			05/04/11 12:43	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/04/11 12:43	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/04/11 12:43	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/04/11 12:43	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/04/11 12:43	1
2-Butanone	10	U	10	1.0	ug/L			05/04/11 12:43	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/04/11 12:43	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/04/11 12:43	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/04/11 12:43	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/04/11 12:43	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/04/11 12:43	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/04/11 12:43	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/04/11 12:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/04/11 12:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/04/11 12:43	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/04/11 12:43	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/04/11 12:43	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/04/11 12:43	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/04/11 12:43	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/04/11 12:43	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/04/11 12:43	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/04/11 12:43	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/04/11 12:43	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/04/11 12:43	1
Diethyl ether	10	U	10	1.0	ug/L			05/04/11 12:43	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/04/11 12:43	1
Ethylene oxide	200	U	200	200	ug/L			05/04/11 12:43	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/04/11 12:43	1
2-Hexanone	10	U	10	1.0	ug/L			05/04/11 12:43	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/04/11 12:43	1
Isobutyl alcohol	40	U	40	11	ug/L			05/04/11 12:43	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/04/11 12:43	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/04/11 12:43	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/04/11 12:43	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/04/11 12:43	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/04/11 12:43	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/04/11 12:43	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/04/11 12:43	1
Propionitrile	20	U	20	4.6	ug/L			05/04/11 12:43	1
Propylene oxide	200	U	200	200	ug/L			05/04/11 12:43	1
Styrene	1.0	U	1.0	0.11	ug/L			05/04/11 12:43	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/04/11 12:43	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/04/11 12:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/04/11 12:43	1

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 680-201948/13**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 201948**

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Tetrachloroethene	1.0	U			1.0	0.15	ug/L			05/04/11 12:43	1
Toluene	1.0	U			1.0	0.33	ug/L			05/04/11 12:43	1
trans-1,4-Dichloro-2-butene	2.0	U			2.0	0.50	ug/L			05/04/11 12:43	1
trans-1,2-Dichloroethene	1.0	U			1.0	0.20	ug/L			05/04/11 12:43	1
trans-1,3-Dichloropropene	1.0	U			1.0	0.21	ug/L			05/04/11 12:43	1
1,2,3-Trichlorobenzene	1.0	U			1.0	0.35	ug/L			05/04/11 12:43	1
1,1,1-Trichloroethane	1.0	U			1.0	0.50	ug/L			05/04/11 12:43	1
1,1,2-Trichloroethane	1.0	U			1.0	0.13	ug/L			05/04/11 12:43	1
Trichloroethylene	1.0	U			1.0	0.13	ug/L			05/04/11 12:43	1
Trichlorofluoromethane	1.0	U			1.0	0.25	ug/L			05/04/11 12:43	1
1,2,3-Trichloropropane	1.0	U			1.0	0.41	ug/L			05/04/11 12:43	1
Vinyl acetate	2.0	U			2.0	0.28	ug/L			05/04/11 12:43	1
Vinyl chloride	1.0	U			1.0	0.18	ug/L			05/04/11 12:43	1
Xylenes, Total	2.0	U			2.0	0.20	ug/L			05/04/11 12:43	1

Tentatively Identified Compound	MB	MB	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Tentatively Identified Compound	None				ug/L					05/04/11 12:43	1

Surrogate	MB	MB	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
4-Bromofluorobenzene	95		70 - 130				05/04/11 12:43	1
Dibromofluoromethane	104		70 - 130				05/04/11 12:43	1
Toluene-d8 (Surr)	100		70 - 130				05/04/11 12:43	1

**Lab Sample ID: LCS 680-201948/10**

**Client Sample ID: Lab Control Sample**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 201948**

Analyte	Spike		LCS		Unit	D	% Rec	Limits
	Added	Result	Qualifier	Unit				
Acetone	100	92.9		ug/L		93	26 - 180	
Benzene	50.0	52.4		ug/L		105	70 - 130	
Bromodichloromethane	50.0	54.1		ug/L		108	70 - 130	
Bromoform	50.0	43.5		ug/L		87	70 - 130	
Bromomethane	50.0	45.2		ug/L		90	23 - 165	
2-Butanone	100	96.1		ug/L		96	49 - 172	
Carbon disulfide	50.0	43.7		ug/L		87	54 - 132	
Carbon tetrachloride	50.0	55.0		ug/L		110	70 - 130	
Chlorobenzene	50.0	49.9		ug/L		100	70 - 130	
Chloroethane	50.0	36.5		ug/L		73	56 - 152	
Chloroform	50.0	49.7		ug/L		99	70 - 130	
Chloromethane	50.0	44.4		ug/L		89	70 - 130	
cis-1,2-Dichloroethene	50.0	49.1		ug/L		98	70 - 130	
cis-1,3-Dichloropropene	50.0	56.0		ug/L		112	70 - 130	
Dibromochloromethane	50.0	54.4		ug/L		109	70 - 130	
1,2-Dibromo-3-Chloropropane	50.0	50.2		ug/L		100	70 - 130	
1,2-Dibromoethane	50.0	52.7		ug/L		105	70 - 130	
Dibromomethane	50.0	50.4		ug/L		101	70 - 130	
Dichlorodifluoromethane	50.0	46.7		ug/L		93	44 - 146	
1,1-Dichloroethane	50.0	49.3		ug/L		99	70 - 130	
1,2-Dichloroethane	50.0	50.9		ug/L		102	70 - 130	

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-201948/10

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 201948

Analyte	Spike Added	LCS		Unit	D	% Rec.		Limits
		Result	Qualifier			% Rec		
1,1-Dichloroethene	50.0	46.5		ug/L		93		66 - 131
1,2-Dichloropropane	50.0	52.1		ug/L		104		70 - 130
Diethyl ether	50.0	44.8		ug/L		90		10 - 200
Ethylbenzene	50.0	52.0		ug/L		104		70 - 130
2-Hexanone	100	103		ug/L		103		42 - 185
Methylene Chloride	50.0	45.0		ug/L		90		67 - 130
4-Methyl-2-pentanone (MIBK)	100	101		ug/L		101		70 - 130
Methyl tert-butyl ether	100	101		ug/L		101		64 - 131
Styrene	50.0	52.9		ug/L		106		70 - 130
t-Butanol	50.0	50.8		ug/L		102		20 - 195
1,1,1,2-Tetrachloroethane	50.0	53.9		ug/L		108		70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.1		ug/L		100		70 - 130
Tetrachloroethene	50.0	48.9		ug/L		98		70 - 130
Toluene	50.0	52.0		ug/L		104		70 - 130
trans-1,2-Dichloroethene	50.0	49.3		ug/L		99		70 - 130
trans-1,3-Dichloropropene	50.0	56.2		ug/L		112		70 - 130
1,2,3-Trichlorobenzene	50.0	48.4		ug/L		97		70 - 130
1,1,1-Trichloroethane	50.0	53.0		ug/L		106		70 - 130
1,1,2-Trichloroethane	50.0	51.5		ug/L		103		70 - 130
Trichloroethylene	50.0	51.6		ug/L		103		70 - 130
Trichlorofluoromethane	50.0	40.5		ug/L		81		55 - 156
1,2,3-Trichloropropane	50.0	50.0		ug/L		100		70 - 130
Vinyl acetate	100	154		ug/L		154		60 - 176
Vinyl chloride	50.0	49.3		ug/L		99		67 - 134
Xylenes, Total	150	155		ug/L		103		70 - 130

LCS LCS

Surrogate % Recovery Qualifier

Limits

Surrogate	% Recovery	Qualifier	Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	98		70 - 130
Toluene-d8 (Surf)	103		70 - 130

Lab Sample ID: LCSD 680-201948/11

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 201948

Analyte	Spike Added	LCSD		Unit	D	% Rec.		RPD	Limit
		Result	Qualifier			% Rec	Limits		
Acetone	100	100		ug/L		100	26 - 180	7	50
Benzene	50.0	53.1		ug/L		106	70 - 130	1	30
Bromodichloromethane	50.0	54.4		ug/L		109	70 - 130	0	30
Bromoform	50.0	45.4		ug/L		91	70 - 130	4	30
Bromomethane	50.0	55.2		ug/L		110	23 - 165	20	50
2-Butanone	100	96.9		ug/L		97	49 - 172	1	30
Carbon disulfide	50.0	45.4		ug/L		91	54 - 132	4	30
Carbon tetrachloride	50.0	55.1		ug/L		110	70 - 130	0	30
Chlorobenzene	50.0	51.0		ug/L		102	70 - 130	2	30
Chloroethane	50.0	40.6		ug/L		81	56 - 152	11	40
Chloroform	50.0	50.5		ug/L		101	70 - 130	2	30
Chloromethane	50.0	44.9		ug/L		90	70 - 130	1	30
cis-1,2-Dichloroethene	50.0	50.0		ug/L		100	70 - 130	2	30

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-201948/11

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 201948

Analyte	Spike	LCSD	LCSD	Unit	D	% Rec	% Rec.	RPD	RPD Limit
	Added	Result	Qualifier				Limits		
cis-1,3-Dichloropropene	50.0	56.0		ug/L	112	70 - 130		0	30
Dibromochloromethane	50.0	55.0		ug/L	110	70 - 130		1	50
1,2-Dibromo-3-Chloropropane	50.0	55.7		ug/L	111	70 - 130		10	50
1,2-Dibromoethane	50.0	54.1		ug/L	108	70 - 130		3	30
Dibromomethane	50.0	51.7		ug/L	103	70 - 130		3	30
Dichlorodifluoromethane	50.0	48.0		ug/L	96	44 - 146		3	50
1,1-Dichloroethane	50.0	49.9		ug/L	100	70 - 130		1	30
1,2-Dichloroethane	50.0	51.4		ug/L	103	70 - 130		1	30
1,1-Dichloroethene	50.0	46.8		ug/L	94	66 - 131		0	30
1,2-Dichloropropane	50.0	52.6		ug/L	105	70 - 130		1	30
Diethyl ether	50.0	45.3		ug/L	91	10 - 200		1	50
Ethylbenzene	50.0	52.8		ug/L	106	70 - 130		1	30
2-Hexanone	100	109		ug/L	109	42 - 185		6	30
Methylene Chloride	50.0	46.7		ug/L	93	67 - 130		4	30
4-Methyl-2-pentanone (MIBK)	100	107		ug/L	107	70 - 130		5	30
Methyl tert-butyl ether	100	102		ug/L	102	64 - 131		1	30
Styrene	50.0	55.1		ug/L	110	70 - 130		4	30
t-Butanol	50.0	56.5		ug/L	113	20 - 195		11	50
1,1,1,2-Tetrachloroethane	50.0	54.5		ug/L	109	70 - 130		1	30
1,1,2,2-Tetrachloroethane	50.0	52.7		ug/L	105	70 - 130		5	30
Tetrachloroethene	50.0	49.9		ug/L	100	70 - 130		2	30
Toluene	50.0	52.8		ug/L	106	70 - 130		1	30
trans-1,2-Dichloroethene	50.0	49.5		ug/L	99	70 - 130		0	30
trans-1,3-Dichloropropene	50.0	56.9		ug/L	114	70 - 130		1	50
1,2,3-Trichlorobenzene	50.0	50.9		ug/L	102	70 - 130		5	30
1,1,1-Trichloroethane	50.0	53.8		ug/L	108	70 - 130		2	30
1,1,2-Trichloroethane	50.0	52.9		ug/L	106	70 - 130		3	30
Trichloroethylene	50.0	53.2		ug/L	106	70 - 130		3	30
Trichlorofluoromethane	50.0	42.3		ug/L	85	55 - 156		4	30
1,2,3-Trichloropropane	50.0	52.4		ug/L	105	70 - 130		5	30
Vinyl acetate	100	153		ug/L	153	60 - 176		1	30
Vinyl chloride	50.0	51.8		ug/L	104	67 - 134		5	30
Xylenes, Total	150	159		ug/L	106	70 - 130		2	30

Surrogate	LCSD	LCSD	Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Lab Sample ID: MB 680-202151/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 202151

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	25	U	25	5.0	ug/L			05/05/11 22:03	1
Acetonitrile	40	U	40	10	ug/L			05/05/11 22:03	1
Acrolein	20	U	20	7.4	ug/L			05/05/11 22:03	1
Acrylonitrile	20	U	20	7.2	ug/L			05/05/11 22:03	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/05/11 22:03	1

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 680-202151/7**

**Matrix: Water**

**Analysis Batch: 202151**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.25	ug/L		05/05/11 22:03		1
Benzyl chloride	1.0	U	1.0	1.0	ug/L		05/05/11 22:03		1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L		05/05/11 22:03		1
Bromoform	1.0	U	1.0	0.50	ug/L		05/05/11 22:03		1
Bromomethane	1.0	U	1.0	0.80	ug/L		05/05/11 22:03		1
2-Butanone	10	U	10	1.0	ug/L		05/05/11 22:03		1
Carbon disulfide	2.0	U	2.0	0.60	ug/L		05/05/11 22:03		1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L		05/05/11 22:03		1
Chlorobenzene	1.0	U	1.0	0.25	ug/L		05/05/11 22:03		1
Chloroethane	1.0	U	1.0	1.0	ug/L		05/05/11 22:03		1
Chloroform	1.0	U	1.0	0.14	ug/L		05/05/11 22:03		1
Chloromethane	1.0	U	1.0	0.33	ug/L		05/05/11 22:03		1
Chloroprene	1.0	U	1.0	0.30	ug/L		05/05/11 22:03		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L		05/05/11 22:03		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L		05/05/11 22:03		1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L		05/05/11 22:03		1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L		05/05/11 22:03		1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L		05/05/11 22:03		1
Dibromomethane	1.0	U	1.0	0.20	ug/L		05/05/11 22:03		1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L		05/05/11 22:03		1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L		05/05/11 22:03		1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L		05/05/11 22:03		1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L		05/05/11 22:03		1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L		05/05/11 22:03		1
Diethyl ether	10	U	10	1.0	ug/L		05/05/11 22:03		1
Ethylbenzene	1.0	U	1.0	0.11	ug/L		05/05/11 22:03		1
Ethylene oxide	200	U	200	200	ug/L		05/05/11 22:03		1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L		05/05/11 22:03		1
2-Hexanone	10	U	10	1.0	ug/L		05/05/11 22:03		1
Iodomethane	5.0	U	5.0	1.0	ug/L		05/05/11 22:03		1
Isobutyl alcohol	40	U	40	11	ug/L		05/05/11 22:03		1
Methacrylonitrile	20	U	20	3.3	ug/L		05/05/11 22:03		1
Methylene Chloride	5.0	U	5.0	1.0	ug/L		05/05/11 22:03		1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L		05/05/11 22:03		1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L		05/05/11 22:03		1
Methyl tert-butyl ether	10	U	10	0.20	ug/L		05/05/11 22:03		1
n-Heptane	1.0	U	1.0	0.42	ug/L		05/05/11 22:03		1
Pentachloroethane	5.0	U	5.0	1.2	ug/L		05/05/11 22:03		1
Propionitrile	20	U	20	4.6	ug/L		05/05/11 22:03		1
Propylene oxide	200	U	200	200	ug/L		05/05/11 22:03		1
Styrene	1.0	U	1.0	0.11	ug/L		05/05/11 22:03		1
t-Butanol	5.0	U	5.0	2.6	ug/L		05/05/11 22:03		1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L		05/05/11 22:03		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/05/11 22:03		1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L		05/05/11 22:03		1
Toluene	1.0	U	1.0	0.33	ug/L		05/05/11 22:03		1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L		05/05/11 22:03		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L		05/05/11 22:03		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L		05/05/11 22:03		1
1,2,3-Trichlorobenzene	0.408	J	1.0	0.35	ug/L		05/05/11 22:03		1

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 680-202151/7**

**Matrix: Water**

**Analysis Batch: 202151**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/05/11 22:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/05/11 22:03	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/05/11 22:03	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/05/11 22:03	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/05/11 22:03	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			05/05/11 22:03	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			05/05/11 22:03	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			05/05/11 22:03	1
Tentatively Identified Compound	MB		Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
1,2,4-Trichlorobenzene	0.293	J T N	ug/L		10.00	120-82-1		05/05/11 22:03	1
Tentatively Identified Compound	None		ug/L					05/05/11 22:03	1
Surrogate	MB		Limits	% Recovery	Qualifer	Spike Added	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifer							
4-Bromofluorobenzene	95		70 - 130			100		05/05/11 22:03	1
Dibromofluoromethane	101		70 - 130					05/05/11 22:03	1
Toluene-d8 (Surr)	100		70 - 130					05/05/11 22:03	1

**Lab Sample ID: LCS 680-202151/6**

**Matrix: Water**

**Analysis Batch: 202151**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS		Unit	D	% Rec	Limits
		Result	Qualifier				
Acetone	100	98.1		ug/L		98	26 - 180
Benzene	50.0	50.3		ug/L		101	70 - 130
Bromodichloromethane	50.0	52.2		ug/L		104	70 - 130
Bromoform	50.0	42.9		ug/L		86	70 - 130
Bromomethane	50.0	43.2		ug/L		86	23 - 165
2-Butanone	100	88.3		ug/L		88	49 - 172
Carbon disulfide	50.0	43.6		ug/L		87	54 - 132
Carbon tetrachloride	50.0	51.8		ug/L		104	70 - 130
Chlorobenzene	50.0	46.9		ug/L		94	70 - 130
Chloroethane	50.0	38.7		ug/L		77	56 - 152
Chloroform	50.0	47.5		ug/L		95	70 - 130
Chloromethane	50.0	44.0		ug/L		88	70 - 130
cis-1,2-Dichloroethene	50.0	47.9		ug/L		96	70 - 130
cis-1,3-Dichloropropene	50.0	52.9		ug/L		106	70 - 130
Dibromochloromethane	50.0	52.6		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	50.3		ug/L		101	70 - 130
1,2-Dibromoethane	50.0	49.8		ug/L		100	70 - 130
Dibromomethane	50.0	48.7		ug/L		97	70 - 130
Dichlorodifluoromethane	50.0	45.2		ug/L		90	44 - 146
1,1-Dichloroethane	50.0	48.6		ug/L		97	70 - 130
1,2-Dichloroethane	50.0	47.8		ug/L		96	70 - 130
1,1-Dichloroethene	50.0	45.4		ug/L		91	66 - 131
1,2-Dichloropropane	50.0	49.1		ug/L		98	70 - 130
Diethyl ether	50.0	42.8		ug/L		86	10 - 200
Ethylbenzene	50.0	49.0		ug/L		98	70 - 130
2-Hexanone	100	102		ug/L		102	42 - 185

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 680-202151/6**

**Matrix: Water**

**Analysis Batch: 202151**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Methylene Chloride	50.0	45.8		ug/L		92	67 - 130
4-Methyl-2-pentanone (MIBK)	100	97.2		ug/L		97	70 - 130
Methyl tert-butyl ether	100	97.7		ug/L		98	64 - 131
Styrene	50.0	49.9		ug/L		100	70 - 130
t-Butanol	50.0	54.5		ug/L		109	20 - 195
1,1,1,2-Tetrachloroethane	50.0	50.9		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	50.0	48.9		ug/L		98	70 - 130
Tetrachloroethene	50.0	45.9		ug/L		92	70 - 130
Toluene	50.0	49.7		ug/L		99	70 - 130
trans-1,2-Dichloroethylene	50.0	47.8		ug/L		96	70 - 130
trans-1,3-Dichloropropene	50.0	53.9		ug/L		108	70 - 130
1,2,3-Trichlorobenzene	50.0	46.0		ug/L		92	70 - 130
1,1,1-Trichloroethane	50.0	50.8		ug/L		102	70 - 130
1,1,2-Trichloroethane	50.0	49.9		ug/L		100	70 - 130
Trichloroethylene	50.0	48.5		ug/L		97	70 - 130
Trichlorofluoromethane	50.0	41.8		ug/L		84	55 - 156
1,2,3-Trichloropropane	50.0	47.7		ug/L		95	70 - 130
Vinyl acetate	100	151		ug/L		151	60 - 176
Vinyl chloride	50.0	48.8		ug/L		98	67 - 134
Xylenes, Total	150	145		ug/L		97	70 - 130

**LCS**

Surrogate	% Recovery	Qualifier	Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Surr)	98		70 - 130

**Lab Sample ID: LCSD 680-202151/8**

**Matrix: Water**

**Analysis Batch: 202151**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	100	102		ug/L		102	26 - 180	4	50
Benzene	50.0	51.8		ug/L		104	70 - 130	3	30
Bromodichloromethane	50.0	51.7		ug/L		103	70 - 130	1	30
Bromoform	50.0	43.3		ug/L		87	70 - 130	1	30
Bromomethane	50.0	39.4		ug/L		79	23 - 165	9	50
2-Butanone	100	85.9		ug/L		86	49 - 172	3	30
Carbon disulfide	50.0	45.1		ug/L		90	54 - 132	3	30
Carbon tetrachloride	50.0	53.8		ug/L		108	70 - 130	4	30
Chlorobenzene	50.0	48.4		ug/L		97	70 - 130	3	30
Chloroethane	50.0	44.0		ug/L		88	56 - 152	13	40
Chloroform	50.0	48.9		ug/L		98	70 - 130	3	30
Chloromethane	50.0	44.1		ug/L		88	70 - 130	0	30
cis-1,2-Dichloroethene	50.0	48.8		ug/L		98	70 - 130	2	30
cis-1,3-Dichloropropene	50.0	51.2		ug/L		102	70 - 130	3	30
Dibromochloromethane	50.0	54.2		ug/L		108	70 - 130	3	50
1,2-Dibromo-3-Chloropropane	50.0	49.1		ug/L		98	70 - 130	2	50
1,2-Dibromoethane	50.0	49.8		ug/L		100	70 - 130	0	30
Dibromomethane	50.0	49.7		ug/L		99	70 - 130	2	30

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-202151/8

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 202151

Analyte	Spike	LCSD	LCSD	Unit	D	% Rec	% Rec.	RPD	RPD Limit
	Added	Result	Qualifier				Limits		
Dichlorodifluoromethane	50.0	43.3		ug/L	87	44 - 146	4	50	
1,1-Dichloroethane	50.0	49.2		ug/L	98	70 - 130	1	30	
1,2-Dichloroethane	50.0	49.0		ug/L	98	70 - 130	2	30	
1,1-Dichloroethene	50.0	47.5		ug/L	95	66 - 131	5	30	
1,2-Dichloropropane	50.0	50.6		ug/L	101	70 - 130	3	30	
Diethyl ether	50.0	49.3		ug/L	99	10 - 200	14	50	
Ethylbenzene	50.0	50.8		ug/L	102	70 - 130	4	30	
2-Hexanone	100	98.2		ug/L	98	42 - 185	3	30	
Methylene Chloride	50.0	46.9		ug/L	94	67 - 130	2	30	
4-Methyl-2-pentanone (MIBK)	100	93.4		ug/L	93	70 - 130	4	30	
Methyl tert-butyl ether	100	93.4		ug/L	93	64 - 131	4	30	
Styrene	50.0	51.7		ug/L	103	70 - 130	4	30	
t-Butanol	50.0	46.0		ug/L	92	20 - 195	17	50	
1,1,1,2-Tetrachloroethane	50.0	52.6		ug/L	105	70 - 130	3	30	
1,1,2,2-Tetrachloroethane	50.0	48.6		ug/L	97	70 - 130	0	30	
Tetrachloroethene	50.0	47.0		ug/L	94	70 - 130	2	30	
Toluene	50.0	51.4		ug/L	103	70 - 130	3	30	
trans-1,2-Dichloroethene	50.0	49.2		ug/L	98	70 - 130	3	30	
trans-1,3-Dichloropropene	50.0	52.3		ug/L	105	70 - 130	3	50	
1,2,3-Trichlorobenzene	50.0	44.7		ug/L	89	70 - 130	3	30	
1,1,1-Trichloroethane	50.0	52.1		ug/L	104	70 - 130	3	30	
1,1,2-Trichloroethane	50.0	50.0		ug/L	100	70 - 130	0	30	
Trichloroethylene	50.0	49.8		ug/L	100	70 - 130	3	30	
Trichlorofluoromethane	50.0	47.0		ug/L	94	55 - 156	12	30	
1,2,3-Trichloropropane	50.0	47.5		ug/L	95	70 - 130	0	30	
Vinyl acetate	100	135		ug/L	135	60 - 176	11	30	
Vinyl chloride	50.0	51.1		ug/L	102	67 - 134	5	30	
Xylenes, Total	150	151		ug/L	101	70 - 130	4	30	

Surrogate	LCSD	LCSD	Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: MB 680-202173/15

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 202173

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	25	U	25	5.0	ug/L			05/06/11 12:21	1
Acetonitrile	40	U	40	10	ug/L			05/06/11 12:21	1
Acrolein	20	U	20	7.4	ug/L			05/06/11 12:21	1
Acrylonitrile	20	U	20	7.2	ug/L			05/06/11 12:21	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/06/11 12:21	1
Benzene	1.0	U	1.0	0.25	ug/L			05/06/11 12:21	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/06/11 12:21	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/06/11 12:21	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/06/11 12:21	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/06/11 12:21	1

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 680-202173/15**

**Matrix: Water**

**Analysis Batch: 202173**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	10	U	10	1.0	ug/L			05/06/11 12:21	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/06/11 12:21	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/06/11 12:21	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/11 12:21	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/06/11 12:21	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/06/11 12:21	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/06/11 12:21	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/06/11 12:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 12:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/06/11 12:21	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/06/11 12:21	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/06/11 12:21	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/06/11 12:21	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/06/11 12:21	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 12:21	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/06/11 12:21	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/06/11 12:21	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/06/11 12:21	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/06/11 12:21	1
Diethyl ether	10	U	10	1.0	ug/L			05/06/11 12:21	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/06/11 12:21	1
Ethylene oxide	200	U	200	200	ug/L			05/06/11 12:21	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/06/11 12:21	1
2-Hexanone	10	U	10	1.0	ug/L			05/06/11 12:21	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/06/11 12:21	1
Isobutyl alcohol	40	U	40	11	ug/L			05/06/11 12:21	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/06/11 12:21	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/06/11 12:21	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/06/11 12:21	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/06/11 12:21	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/06/11 12:21	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/06/11 12:21	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/06/11 12:21	1
Propionitrile	20	U	20	4.6	ug/L			05/06/11 12:21	1
Propylene oxide	200	U	200	200	ug/L			05/06/11 12:21	1
Styrene	1.0	U	1.0	0.11	ug/L			05/06/11 12:21	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/06/11 12:21	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/06/11 12:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/06/11 12:21	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/06/11 12:21	1
Toluene	1.0	U	1.0	0.33	ug/L			05/06/11 12:21	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/06/11 12:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/06/11 12:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/06/11 12:21	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/06/11 12:21	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/06/11 12:21	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/06/11 12:21	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/06/11 12:21	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/06/11 12:21	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/06/11 12:21	1

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 680-202173/15**

**Matrix: Water**

**Analysis Batch: 202173**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Vinyl acetate	2.0	U	2.0		2.0	0.28	ug/L			05/06/11 12:21	1
Vinyl chloride	1.0	U			1.0	0.18	ug/L			05/06/11 12:21	1
Xylenes, Total	2.0	U			2.0	0.20	ug/L			05/06/11 12:21	1
Tentatively Identified Compound	MB	MB	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Tentatively Identified Compound	None									
Surrogate	MB	MB	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
	4-Bromofluorobenzene	95									
Dibromofluoromethane	102				70 - 130					05/06/11 12:21	1
Toluene-d8 (Surr)	102				70 - 130					05/06/11 12:21	1

**Lab Sample ID: LCS 680-202173/12**

**Matrix: Water**

**Analysis Batch: 202173**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS			D	% Rec	Limits
		Result	Qualifier	Unit			
Acetone	100	106		ug/L		106	26 - 180
Benzene	50.0	51.9		ug/L		104	70 - 130
Bromodichloromethane	50.0	53.2		ug/L		106	70 - 130
Bromoform	50.0	44.3		ug/L		89	70 - 130
Bromomethane	50.0	49.9		ug/L		100	23 - 165
2-Butanone	100	97.0		ug/L		97	49 - 172
Carbon disulfide	50.0	44.4		ug/L		89	54 - 132
Carbon tetrachloride	50.0	53.5		ug/L		107	70 - 130
Chlorobenzene	50.0	48.8		ug/L		98	70 - 130
Chloroethane	50.0	40.6		ug/L		81	56 - 152
Chloroform	50.0	49.9		ug/L		100	70 - 130
Chloromethane	50.0	44.8		ug/L		90	70 - 130
cis-1,2-Dichloroethene	50.0	49.9		ug/L		100	70 - 130
cis-1,3-Dichloropropene	50.0	55.2		ug/L		110	70 - 130
Dibromochloromethane	50.0	53.7		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	52.5		ug/L		105	70 - 130
1,2-Dibromoethane	50.0	52.4		ug/L		105	70 - 130
Dibromomethane	50.0	50.0		ug/L		100	70 - 130
Dichlorodifluoromethane	50.0	46.1		ug/L		92	44 - 146
1,1-Dichloroethane	50.0	50.3		ug/L		101	70 - 130
1,2-Dichloroethane	50.0	50.0		ug/L		100	70 - 130
1,1-Dichloroethene	50.0	46.5		ug/L		93	66 - 131
1,2-Dichloropropane	50.0	51.3		ug/L		103	70 - 130
Diethyl ether	50.0	45.4		ug/L		91	10 - 200
Ethylbenzene	50.0	50.6		ug/L		101	70 - 130
2-Hexanone	100	108		ug/L		108	42 - 185
Methylene Chloride	50.0	47.0		ug/L		94	67 - 130
4-Methyl-2-pentanone (MIBK)	100	100		ug/L		100	70 - 130
Methyl tert-butyl ether	100	99.9		ug/L		100	64 - 131
Styrene	50.0	52.5		ug/L		105	70 - 130
t-Butanol	50.0	51.2		ug/L		102	20 - 195
1,1,1,2-Tetrachloroethane	50.0	52.9		ug/L		106	70 - 130

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 680-202173/12**

**Matrix: Water**

**Analysis Batch: 202173**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS			Unit	D	% Rec.		Limits
		Result	Qualifier	% Rec					
1,1,2,2-Tetrachloroethane	50.0	50.0		100	ug/L				70 - 130
Tetrachloroethene	50.0	46.7		93	ug/L				70 - 130
Toluene	50.0	51.3		103	ug/L				70 - 130
trans-1,2-Dichloroethene	50.0	48.2		96	ug/L				70 - 130
trans-1,3-Dichloropropene	50.0	55.5		111	ug/L				70 - 130
1,2,3-Trichlorobenzene	50.0	49.3		99	ug/L				70 - 130
1,1,1-Trichloroethane	50.0	52.0		104	ug/L				70 - 130
1,1,2-Trichloroethane	50.0	51.6		103	ug/L				70 - 130
Trichloroethylene	50.0	50.4		101	ug/L				70 - 130
Trichlorofluoromethane	50.0	41.7		83	ug/L				55 - 156
1,2,3-Trichloropropane	50.0	50.2		100	ug/L				70 - 130
Vinyl acetate	100	152		152	ug/L				60 - 176
Vinyl chloride	50.0	48.7		97	ug/L				67 - 134
Xylenes, Total	150	153		102	ug/L				70 - 130
<hr/>									
Surrogate	Spike Added	LCS	LCS	Limits	Unit	D	% Rec.	RPD	Limit
		% Recovery	Qualifier						
4-Bromofluorobenzene	101			70 - 130					
Dibromofluoromethane	99			70 - 130					
Toluene-d8 (Surr)	102			70 - 130					

**Lab Sample ID: LCSD 680-202173/13**

**Matrix: Water**

**Analysis Batch: 202173**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD			Unit	D	% Rec.		RPD	Limit
		Result	Qualifier	% Rec						
Acetone	100	98.0		98	ug/L				8	50
Benzene	50.0	51.8		104	ug/L				0	30
Bromodichloromethane	50.0	53.6		107	ug/L				1	30
Bromoform	50.0	44.9		90	ug/L				1	30
Bromomethane	50.0	53.3		107	ug/L				7	50
2-Butanone	100	92.3		92	ug/L				5	30
Carbon disulfide	50.0	44.3		89	ug/L				0	30
Carbon tetrachloride	50.0	54.2		108	ug/L				1	30
Chlorobenzene	50.0	49.4		99	ug/L				1	30
Chloroethane	50.0	39.2		78	ug/L				3	40
Chloroform	50.0	48.9		98	ug/L				2	30
Chloromethane	50.0	43.7		87	ug/L				3	30
cis-1,2-Dichloroethene	50.0	48.8		98	ug/L				2	30
cis-1,3-Dichloropropene	50.0	55.3		111	ug/L				0	30
Dibromochloromethane	50.0	53.9		108	ug/L				0	50
1,2-Dibromo-3-Chloropropane	50.0	53.0		106	ug/L				1	50
1,2-Dibromoethane	50.0	51.5		103	ug/L				2	30
Dibromomethane	50.0	50.4		101	ug/L				1	30
Dichlorodifluoromethane	50.0	45.4		91	ug/L				1	50
1,1-Dichloroethane	50.0	48.6		97	ug/L				4	30
1,2-Dichloroethane	50.0	50.4		101	ug/L				1	30
1,1-Dichloroethene	50.0	45.5		91	ug/L				2	30
1,2-Dichloropropane	50.0	51.3		103	ug/L				0	30
Diethyl ether	50.0	44.8		90	ug/L				1	50

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-202173/13

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 202173

Analyte	Spike	LCSD	LCSD	Unit	D	% Rec	% Rec.	RPD	RPD Limit
	Added	Result	Qualifier				Limits		
Ethylbenzene	50.0	51.4		ug/L		103	70 - 130	2	30
2-Hexanone	100	110		ug/L		110	42 - 185	2	30
Methylene Chloride	50.0	45.6		ug/L		91	67 - 130	3	30
4-Methyl-2-pentanone (MIBK)	100	101		ug/L		101	70 - 130	1	30
Methyl tert-butyl ether	100	97.2		ug/L		97	64 - 131	3	30
Styrene	50.0	53.4		ug/L		107	70 - 130	2	30
t-Butanol	50.0	50.1		ug/L		100	20 - 195	2	50
1,1,1,2-Tetrachloroethane	50.0	53.5		ug/L		107	70 - 130	1	30
1,1,2,2-Tetrachloroethane	50.0	51.2		ug/L		102	70 - 130	2	30
Tetrachloroethene	50.0	48.5		ug/L		97	70 - 130	4	30
Toluene	50.0	51.6		ug/L		103	70 - 130	1	30
trans-1,2-Dichloroethene	50.0	47.5		ug/L		95	70 - 130	1	30
trans-1,3-Dichloropropene	50.0	54.9		ug/L		110	70 - 130	1	50
1,2,3-Trichlorobenzene	50.0	49.6		ug/L		99	70 - 130	1	30
1,1,1-Trichloroethane	50.0	52.5		ug/L		105	70 - 130	1	30
1,1,2-Trichloroethane	50.0	51.3		ug/L		103	70 - 130	1	30
Trichloroethylene	50.0	50.4		ug/L		101	70 - 130	0	30
Trichlorofluoromethane	50.0	40.6		ug/L		81	55 - 156	3	30
1,2,3-Trichloropropane	50.0	49.4		ug/L		99	70 - 130	2	30
Vinyl acetate	100	147		ug/L		147	60 - 176	3	30
Vinyl chloride	50.0	48.5		ug/L		97	67 - 134	0	30
Xylenes, Total	150	155		ug/L		103	70 - 130	2	30

LCSD LCSD

Surrogate	LCSD	LCSD	Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Surf)	102		70 - 130

Lab Sample ID: 680-67898-2 MS

Client Sample ID: MW-4

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 202173

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	% Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Acetone	25	U	100	102		ug/L		102	26 - 180
Benzene	1.0	U	50.0	48.7		ug/L		97	70 - 130
Bromodichloromethane	1.0	U	50.0	49.3		ug/L		99	70 - 130
Bromoform	1.0	U	50.0	40.9		ug/L		82	70 - 130
Bromomethane	1.0	U	50.0	40.2		ug/L		80	23 - 165
2-Butanone	10	U	100	98.4		ug/L		98	49 - 172
Carbon disulfide	2.0	U	50.0	42.2		ug/L		84	54 - 132
Carbon tetrachloride	1.0	U	50.0	51.8		ug/L		104	70 - 130
Chlorobenzene	1.0	U	50.0	47.0		ug/L		94	70 - 130
Chloroethane	1.0	U	50.0	40.7		ug/L		81	56 - 152
Chloroform	1.0	U	50.0	47.3		ug/L		95	70 - 130
Chloromethane	1.0	U	50.0	39.6		ug/L		79	70 - 130
cis-1,2-Dichloroethene	1.0	U	50.0	48.8		ug/L		98	70 - 130
cis-1,3-Dichloropropene	1.0	U	50.0	51.2		ug/L		102	70 - 130
Dibromochloromethane	1.0	U	50.0	50.7		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	1.0	U	50.0	47.6		ug/L		95	70 - 130

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 680-67898-2 MS**

**Matrix: Water**

**Analysis Batch: 202173**

**Client Sample ID: MW-4**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	% Rec	% Rec.
	Result	Qualifier	Added	Result	Qualifier				
1,2-Dibromoethane	1.0	U	50.0	47.8		ug/L		96	70 - 130
Dibromomethane	1.0	U	50.0	45.6		ug/L		91	70 - 130
Dichlorodifluoromethane	1.0	U	50.0	37.6		ug/L		75	44 - 146
1,1-Dichloroethane	1.0	U	50.0	47.8		ug/L		96	70 - 130
1,2-Dichloroethane	1.0	U	50.0	46.5		ug/L		93	70 - 130
1,1-Dichloroethene	1.0	U	50.0	44.4		ug/L		89	66 - 131
1,2-Dichloropropane	1.0	U	50.0	48.5		ug/L		97	70 - 130
Ethylbenzene	1.0	U	50.0	49.4		ug/L		99	70 - 130
2-Hexanone	10	U	100	103		ug/L		103	42 - 185
Methylene Chloride	5.0	U	50.0	43.2		ug/L		86	67 - 130
4-Methyl-2-pentanone (MIBK)	10	U	100	94.8		ug/L		95	70 - 130
Methyl tert-butyl ether	10	U	100	92.8		ug/L		93	64 - 131
Styrene	1.0	U	50.0	50.0		ug/L		100	70 - 130
1,1,1,2-Tetrachloroethane	1.0	U	50.0	50.8		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	1.0	U	50.0	48.0		ug/L		96	70 - 130
Tetrachloroethene	1.0	U	50.0	46.6		ug/L		93	70 - 130
Toluene	1.0	U	50.0	48.7		ug/L		97	70 - 130
trans-1,2-Dichloroethene	1.0	U	50.0	47.9		ug/L		96	70 - 130
trans-1,3-Dichloropropene	1.0	U	50.0	51.1		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	1.0	U	50.0	44.4		ug/L		89	70 - 130
1,1,1-Trichloroethane	1.0	U	50.0	50.4		ug/L		101	70 - 130
1,1,2-Trichloroethane	1.0	U	50.0	46.9		ug/L		94	70 - 130
Trichloroethylene	1.0	U	50.0	48.6		ug/L		97	70 - 130
Trichlorofluoromethane	1.0	U	50.0	44.1		ug/L		88	55 - 156
1,2,3-Trichloropropane	1.0	U	50.0	46.1		ug/L		92	70 - 130
Vinyl acetate	2.0	U	100	149		ug/L		149	60 - 176
Vinyl chloride	1.0	U	50.0	46.1		ug/L		92	67 - 134
Xylenes, Total	2.0	U	150	147		ug/L		98	70 - 130

Surrogate	MS	MS	Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	94		70 - 130
Dibromofluoromethane	94		70 - 130
Toluene-d8 (Surr)	96		70 - 130

**Lab Sample ID: 680-67898-2 MSD**

**Matrix: Water**

**Analysis Batch: 202173**

**Client Sample ID: MW-4**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Acetone	25	U	100	102		ug/L		102	26 - 180	0	50
Benzene	1.0	U	50.0	51.4		ug/L		103	70 - 130	6	30
Bromodichloromethane	1.0	U	50.0	51.5		ug/L		103	70 - 130	4	30
Bromoform	1.0	U	50.0	43.4		ug/L		87	70 - 130	6	30
Bromomethane	1.0	U	50.0	58.6		ug/L		117	23 - 165	37	50
2-Butanone	10	U	100	78.0		ug/L		78	49 - 172	23	30
Carbon disulfide	2.0	U	50.0	44.0		ug/L		88	54 - 132	4	30
Carbon tetrachloride	1.0	U	50.0	55.3		ug/L		111	70 - 130	7	30
Chlorobenzene	1.0	U	50.0	49.4		ug/L		99	70 - 130	5	30
Chloroethane	1.0	U	50.0	42.8		ug/L		86	56 - 152	5	40

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 680-67898-2 MSD**

**Matrix: Water**

**Analysis Batch: 202173**

**Client Sample ID: MW-4**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chloroform	1.0	U	50.0	50.4		ug/L	101	70 - 130	6	30	
Chloromethane	1.0	U	50.0	41.5		ug/L	83	70 - 130	4	30	
cis-1,2-Dichloroethene	1.0	U	50.0	50.0		ug/L	100	70 - 130	2	30	
cis-1,3-Dichloropropene	1.0	U	50.0	52.7		ug/L	105	70 - 130	3	30	
Dibromochloromethane	1.0	U	50.0	52.0		ug/L	104	70 - 130	3	50	
1,2-Dibromo-3-Chloropropane	1.0	U	50.0	50.7		ug/L	101	70 - 130	6	50	
1,2-Dibromoethane	1.0	U	50.0	50.0		ug/L	100	70 - 130	4	30	
Dibromomethane	1.0	U	50.0	49.6		ug/L	99	70 - 130	8	30	
Dichlorodifluoromethane	1.0	U	50.0	41.4		ug/L	83	44 - 146	10	50	
1,1-Dichloroethane	1.0	U	50.0	50.2		ug/L	100	70 - 130	5	30	
1,2-Dichloroethane	1.0	U	50.0	48.3		ug/L	97	70 - 130	4	30	
1,1-Dichloroethene	1.0	U	50.0	46.4		ug/L	93	66 - 131	4	30	
1,2-Dichloropropane	1.0	U	50.0	50.4		ug/L	101	70 - 130	4	30	
Ethylbenzene	1.0	U	50.0	51.2		ug/L	102	70 - 130	4	30	
2-Hexanone	10	U	100	102		ug/L	102	42 - 185	1	30	
Methylene Chloride	5.0	U	50.0	45.1		ug/L	90	67 - 130	4	30	
4-Methyl-2-pentanone (MIBK)	10	U	100	98.6		ug/L	99	70 - 130	4	30	
Methyl tert-butyl ether	10	U	100	96.5		ug/L	97	64 - 131	4	30	
Styrene	1.0	U	50.0	51.8		ug/L	104	70 - 130	4	30	
1,1,1,2-Tetrachloroethane	1.0	U	50.0	52.9		ug/L	106	70 - 130	4	30	
1,1,2,2-Tetrachloroethane	1.0	U	50.0	50.6		ug/L	101	70 - 130	5	30	
Tetrachloroethene	1.0	U	50.0	48.8		ug/L	98	70 - 130	5	30	
Toluene	1.0	U	50.0	50.2		ug/L	100	70 - 130	3	30	
trans-1,2-Dichloroethene	1.0	U	50.0	50.5		ug/L	101	70 - 130	5	30	
trans-1,3-Dichloropropene	1.0	U	50.0	53.6		ug/L	107	70 - 130	5	50	
1,2,3-Trichlorobenzene	1.0	U	50.0	47.4		ug/L	95	70 - 130	7	30	
1,1,1-Trichloroethane	1.0	U	50.0	53.2		ug/L	106	70 - 130	5	30	
1,1,2-Trichloroethane	1.0	U	50.0	50.0		ug/L	100	70 - 130	6	30	
Trichloroethylene	1.0	U	50.0	50.8		ug/L	102	70 - 130	4	30	
Trichlorofluoromethane	1.0	U	50.0	45.9		ug/L	92	55 - 156	4	30	
1,2,3-Trichloropropane	1.0	U	50.0	48.1		ug/L	96	70 - 130	4	30	
Vinyl acetate	2.0	U	100	152		ug/L	152	60 - 176	2	30	
Vinyl chloride	1.0	U	50.0	47.6		ug/L	95	67 - 134	3	30	
Xylenes, Total	2.0	U	150	152		ug/L	101	70 - 130	3	30	
<b>Surrogate</b>											
	MSD	MSD									
	% Recovery	Qualifier				Limits					
4-Bromofluorobenzene	98					70 - 130					
Dibromofluoromethane	99					70 - 130					
Toluene-d8 (Surr)	101					70 - 130					

**Lab Sample ID: MB 680-202245/18**

**Matrix: Water**

**Analysis Batch: 202245**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	25	U	25	5.0	ug/L			05/07/11 14:00	1
Acetonitrile	40	U	40	10	ug/L			05/07/11 14:00	1
Acrolein	20	U	20	7.4	ug/L			05/07/11 14:00	1
Acrylonitrile	20	U	20	7.2	ug/L			05/07/11 14:00	1

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 680-202245/18**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 202245**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/07/11 14:00	1
Benzene	1.0	U	1.0	0.25	ug/L			05/07/11 14:00	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/07/11 14:00	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/07/11 14:00	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/07/11 14:00	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/07/11 14:00	1
2-Butanone	10	U	10	1.0	ug/L			05/07/11 14:00	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/07/11 14:00	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/07/11 14:00	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/11 14:00	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/07/11 14:00	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/07/11 14:00	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/07/11 14:00	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/07/11 14:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/07/11 14:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/07/11 14:00	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/07/11 14:00	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/07/11 14:00	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/07/11 14:00	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/07/11 14:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/07/11 14:00	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/07/11 14:00	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/07/11 14:00	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/07/11 14:00	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/07/11 14:00	1
Diethyl ether	10	U	10	1.0	ug/L			05/07/11 14:00	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/07/11 14:00	1
Ethylene oxide	200	U	200	200	ug/L			05/07/11 14:00	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/07/11 14:00	1
2-Hexanone	10	U	10	1.0	ug/L			05/07/11 14:00	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/07/11 14:00	1
Isobutyl alcohol	40	U	40	11	ug/L			05/07/11 14:00	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/07/11 14:00	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/07/11 14:00	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/07/11 14:00	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/07/11 14:00	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/07/11 14:00	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/07/11 14:00	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/07/11 14:00	1
Propionitrile	20	U	20	4.6	ug/L			05/07/11 14:00	1
Propylene oxide	200	U	200	200	ug/L			05/07/11 14:00	1
Styrene	1.0	U	1.0	0.11	ug/L			05/07/11 14:00	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/07/11 14:00	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/07/11 14:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/07/11 14:00	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/07/11 14:00	1
Toluene	1.0	U	1.0	0.33	ug/L			05/07/11 14:00	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/07/11 14:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/07/11 14:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/07/11 14:00	1

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 680-202245/18**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 202245**

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
1,2,3-Trichlorobenzene	1.0	U	1.0		1.0	0.35	ug/L			05/07/11 14:00	1
1,1,1-Trichloroethane	1.0	U			1.0	0.50	ug/L			05/07/11 14:00	1
1,1,2-Trichloroethane	1.0	U			1.0	0.13	ug/L			05/07/11 14:00	1
Trichloroethylene	1.0	U			1.0	0.13	ug/L			05/07/11 14:00	1
Trichlorofluoromethane	1.0	U			1.0	0.25	ug/L			05/07/11 14:00	1
1,2,3-Trichloropropane	1.0	U			1.0	0.41	ug/L			05/07/11 14:00	1
Vinyl acetate	2.0	U			2.0	0.28	ug/L			05/07/11 14:00	1
Vinyl chloride	1.0	U			1.0	0.18	ug/L			05/07/11 14:00	1
Xylenes, Total	2.0	U			2.0	0.20	ug/L			05/07/11 14:00	1

Tentatively Identified Compound	MB	MB	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Tentatively Identified Compound	None				ug/L					05/07/11 14:00	1
Surrogate	MB	MB							Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	% Recovery	Qualifier			Limits					05/07/11 14:00	1
	97				70 - 130						
Dibromofluoromethane			102		70 - 130					05/07/11 14:00	1
Toluene-d8 (Surr)			102		70 - 130					05/07/11 14:00	1

**Lab Sample ID: LCS 680-202245/15**

**Client Sample ID: Lab Control Sample**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 202245**

Analyte	Spike	LCS		Result	Qualifier	Unit	D	% Rec	% Rec.	
		Added	Limits						Limits	
Acetone		100	107			ug/L		107	26 - 180	
Benzene		50.0	51.5			ug/L		103	70 - 130	
Bromodichloromethane		50.0	54.1			ug/L		108	70 - 130	
Bromoform		50.0	45.8			ug/L		92	70 - 130	
Bromomethane		50.0	38.6			ug/L		77	23 - 165	
2-Butanone		100	95.4			ug/L		95	49 - 172	
Carbon disulfide		50.0	46.4			ug/L		93	54 - 132	
Carbon tetrachloride		50.0	55.4			ug/L		111	70 - 130	
Chlorobenzene		50.0	49.3			ug/L		99	70 - 130	
Chloroethane		50.0	42.0			ug/L		84	56 - 152	
Chloroform		50.0	51.0			ug/L		102	70 - 130	
Chloromethane		50.0	45.2			ug/L		90	70 - 130	
cis-1,2-Dichloroethene		50.0	50.4			ug/L		101	70 - 130	
cis-1,3-Dichloropropene		50.0	55.8			ug/L		112	70 - 130	
Dibromochloromethane		50.0	55.1			ug/L		110	70 - 130	
1,2-Dibromo-3-Chloropropane		50.0	52.3			ug/L		105	70 - 130	
1,2-Dibromoethane		50.0	51.7			ug/L		103	70 - 130	
Dibromomethane		50.0	50.2			ug/L		100	70 - 130	
Dichlorodifluoromethane		50.0	48.2			ug/L		96	44 - 146	
1,1-Dichloroethane		50.0	51.0			ug/L		102	70 - 130	
1,2-Dichloroethane		50.0	50.2			ug/L		100	70 - 130	
1,1-Dichloroethene		50.0	47.6			ug/L		95	66 - 131	
1,2-Dichloropropane		50.0	51.8			ug/L		104	70 - 130	
Diethyl ether		50.0	44.9			ug/L		90	10 - 200	
Ethylbenzene		50.0	51.9			ug/L		104	70 - 130	
2-Hexanone		100	112			ug/L		112	42 - 185	

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 680-202245/15**

**Matrix: Water**

**Analysis Batch: 202245**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Methylene Chloride	50.0	46.8		ug/L		94	67 - 130
4-Methyl-2-pentanone (MIBK)	100	101		ug/L		101	70 - 130
Methyl tert-butyl ether	100	100		ug/L		100	64 - 131
Styrene	50.0	53.6		ug/L		107	70 - 130
t-Butanol	50.0	53.1		ug/L		106	20 - 195
1,1,1,2-Tetrachloroethane	50.0	53.8		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.1		ug/L		102	70 - 130
Tetrachloroethene	50.0	48.1		ug/L		96	70 - 130
Toluene	50.0	51.7		ug/L		103	70 - 130
trans-1,2-Dichloroethene	50.0	49.1		ug/L		98	70 - 130
trans-1,3-Dichloropropene	50.0	57.1		ug/L		114	70 - 130
1,2,3-Trichlorobenzene	50.0	49.2		ug/L		98	70 - 130
1,1,1-Trichloroethane	50.0	53.4		ug/L		107	70 - 130
1,1,2-Trichloroethane	50.0	51.7		ug/L		103	70 - 130
Trichloroethylene	50.0	50.5		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	43.3		ug/L		87	55 - 156
1,2,3-Trichloropropane	50.0	48.7		ug/L		97	70 - 130
Vinyl acetate	100	154		ug/L		154	60 - 176
Vinyl chloride	50.0	49.3		ug/L		99	67 - 134
Xylenes, Total	150	156		ug/L		104	70 - 130

**LCS LCS**

Surrogate	% Recovery	Qualifier	Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	103		70 - 130

**Lab Sample ID: LCSD 680-202245/16**

**Matrix: Water**

**Analysis Batch: 202245**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	100	100		ug/L		100	26 - 180	6	50
Benzene	50.0	50.4		ug/L		101	70 - 130	2	30
Bromodichloromethane	50.0	53.4		ug/L		107	70 - 130	1	30
Bromoform	50.0	45.0		ug/L		90	70 - 130	2	30
Bromomethane	50.0	42.8		ug/L		86	23 - 165	10	50
2-Butanone	100	90.5		ug/L		90	49 - 172	5	30
Carbon disulfide	50.0	43.8		ug/L		88	54 - 132	6	30
Carbon tetrachloride	50.0	53.0		ug/L		106	70 - 130	4	30
Chlorobenzene	50.0	49.1		ug/L		98	70 - 130	1	30
Chloroethane	50.0	40.3		ug/L		81	56 - 152	4	40
Chloroform	50.0	49.5		ug/L		99	70 - 130	3	30
Chloromethane	50.0	43.3		ug/L		87	70 - 130	4	30
cis-1,2-Dichloroethene	50.0	48.7		ug/L		97	70 - 130	3	30
cis-1,3-Dichloropropene	50.0	54.5		ug/L		109	70 - 130	2	30
Dibromochloromethane	50.0	54.0		ug/L		108	70 - 130	2	50
1,2-Dibromo-3-Chloropropane	50.0	51.6		ug/L		103	70 - 130	1	50
1,2-Dibromoethane	50.0	51.2		ug/L		102	70 - 130	1	30
Dibromomethane	50.0	49.8		ug/L		100	70 - 130	1	30

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-202245/16

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 202245

Analyte	Spike	LCSD	LCSD	Unit	D	% Rec	% Rec.	RPD	RPD Limit
	Added	Result	Qualifier				Limits		
Dichlorodifluoromethane	50.0	45.0		ug/L	90	44 - 146	7	50	
1,1-Dichloroethane	50.0	49.0		ug/L	98	70 - 130	4	30	
1,2-Dichloroethane	50.0	49.9		ug/L	100	70 - 130	1	30	
1,1-Dichloroethene	50.0	45.3		ug/L	91	66 - 131	5	30	
1,2-Dichloropropane	50.0	51.5		ug/L	103	70 - 130	1	30	
Diethyl ether	50.0	42.9		ug/L	86	10 - 200	4	50	
Ethylbenzene	50.0	50.8		ug/L	102	70 - 130	2	30	
2-Hexanone	100	110		ug/L	110	42 - 185	2	30	
Methylene Chloride	50.0	46.0		ug/L	92	67 - 130	2	30	
4-Methyl-2-pentanone (MIBK)	100	98.3		ug/L	98	70 - 130	3	30	
Methyl tert-butyl ether	100	97.8		ug/L	98	64 - 131	2	30	
Styrene	50.0	52.8		ug/L	106	70 - 130	1	30	
t-Butanol	50.0	50.1		ug/L	100	20 - 195	6	50	
1,1,1,2-Tetrachloroethane	50.0	52.9		ug/L	106	70 - 130	2	30	
1,1,2,2-Tetrachloroethane	50.0	50.3		ug/L	101	70 - 130	2	30	
Tetrachloroethene	50.0	46.5		ug/L	93	70 - 130	3	30	
Toluene	50.0	50.8		ug/L	102	70 - 130	2	30	
trans-1,2-Dichloroethene	50.0	47.7		ug/L	95	70 - 130	3	30	
trans-1,3-Dichloropropene	50.0	56.1		ug/L	112	70 - 130	2	50	
1,2,3-Trichlorobenzene	50.0	49.4		ug/L	99	70 - 130	0	30	
1,1,1-Trichloroethane	50.0	51.6		ug/L	103	70 - 130	3	30	
1,1,2-Trichloroethane	50.0	50.6		ug/L	101	70 - 130	2	30	
Trichloroethylene	50.0	49.4		ug/L	99	70 - 130	2	30	
Trichlorofluoromethane	50.0	40.1		ug/L	80	55 - 156	8	30	
1,2,3-Trichloropropane	50.0	49.0		ug/L	98	70 - 130	1	30	
Vinyl acetate	100	148		ug/L	148	60 - 176	4	30	
Vinyl chloride	50.0	46.7		ug/L	93	67 - 134	5	30	
Xylenes, Total	150	152		ug/L	101	70 - 130	2	30	

Surrogate	LCSD	LCSD	Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	97		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: MB 680-202323/8

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 202323

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	25	U	25	5.0	ug/L			05/08/11 14:11	1
Acetonitrile	40	U	40	10	ug/L			05/08/11 14:11	1
Acrolein	20	U	20	7.4	ug/L			05/08/11 14:11	1
Acrylonitrile	20	U	20	7.2	ug/L			05/08/11 14:11	1
Allyl chloride	1.0	U	1.0	0.20	ug/L			05/08/11 14:11	1
Benzene	1.0	U	1.0	0.25	ug/L			05/08/11 14:11	1
Benzyl chloride	1.0	U	1.0	1.0	ug/L			05/08/11 14:11	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			05/08/11 14:11	1
Bromoform	1.0	U	1.0	0.50	ug/L			05/08/11 14:11	1
Bromomethane	1.0	U	1.0	0.80	ug/L			05/08/11 14:11	1

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-202323/8

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 202323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	10	U	10	1.0	ug/L			05/08/11 14:11	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			05/08/11 14:11	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			05/08/11 14:11	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/08/11 14:11	1
Chloroethane	1.0	U	1.0	1.0	ug/L			05/08/11 14:11	1
Chloroform	1.0	U	1.0	0.14	ug/L			05/08/11 14:11	1
Chloromethane	1.0	U	1.0	0.33	ug/L			05/08/11 14:11	1
Chloroprene	1.0	U	1.0	0.30	ug/L			05/08/11 14:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			05/08/11 14:11	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			05/08/11 14:11	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			05/08/11 14:11	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			05/08/11 14:11	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			05/08/11 14:11	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			05/08/11 14:11	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			05/08/11 14:11	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			05/08/11 14:11	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			05/08/11 14:11	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			05/08/11 14:11	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			05/08/11 14:11	1
Diethyl ether	10	U	10	1.0	ug/L			05/08/11 14:11	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			05/08/11 14:11	1
Ethylene oxide	200	U	200	200	ug/L			05/08/11 14:11	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			05/08/11 14:11	1
2-Hexanone	10	U	10	1.0	ug/L			05/08/11 14:11	1
Iodomethane	5.0	U	5.0	1.0	ug/L			05/08/11 14:11	1
Isobutyl alcohol	40	U	40	11	ug/L			05/08/11 14:11	1
Methacrylonitrile	20	U	20	3.3	ug/L			05/08/11 14:11	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			05/08/11 14:11	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			05/08/11 14:11	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			05/08/11 14:11	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			05/08/11 14:11	1
n-Heptane	1.0	U	1.0	0.42	ug/L			05/08/11 14:11	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			05/08/11 14:11	1
Propionitrile	20	U	20	4.6	ug/L			05/08/11 14:11	1
Propylene oxide	200	U	200	200	ug/L			05/08/11 14:11	1
Styrene	1.0	U	1.0	0.11	ug/L			05/08/11 14:11	1
t-Butanol	5.0	U	5.0	2.6	ug/L			05/08/11 14:11	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			05/08/11 14:11	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/08/11 14:11	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/08/11 14:11	1
Toluene	1.0	U	1.0	0.33	ug/L			05/08/11 14:11	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			05/08/11 14:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			05/08/11 14:11	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			05/08/11 14:11	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			05/08/11 14:11	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			05/08/11 14:11	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			05/08/11 14:11	1
Trichloroethylene	1.0	U	1.0	0.13	ug/L			05/08/11 14:11	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			05/08/11 14:11	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			05/08/11 14:11	1

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 680-202323/8**

**Matrix: Water**

**Analysis Batch: 202323**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Vinyl acetate	2.0	U	2.0		2.0	0.28	ug/L			05/08/11 14:11	1
Vinyl chloride	1.0	U			1.0	0.18	ug/L			05/08/11 14:11	1
Xylenes, Total	2.0	U			2.0	0.20	ug/L			05/08/11 14:11	1

Tentatively Identified Compound	MB	MB	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Tentatively Identified Compound	None				ug/L					05/08/11 14:11	1

Surrogate	MB	MB	% Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	Result	Qualifier								
4-Bromofluorobenzene	95		70 - 130						05/08/11 14:11	1
Dibromofluoromethane	103		70 - 130						05/08/11 14:11	1
Toluene-d8 (Surr)	102		70 - 130						05/08/11 14:11	1

**Lab Sample ID: LCS 680-202323/5**

**Matrix: Water**

**Analysis Batch: 202323**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS			Unit	D	% Rec	Limits	% Rec.
		Result	Qualifier	Unit					
Acetone	100	98.1		ug/L			98	26 - 180	
Benzene	50.0	51.3		ug/L			103	70 - 130	
Bromodichloromethane	50.0	53.3		ug/L			107	70 - 130	
Bromoform	50.0	44.8		ug/L			90	70 - 130	
Bromomethane	50.0	37.5		ug/L			75	23 - 165	
2-Butanone	100	91.3		ug/L			91	49 - 172	
Carbon disulfide	50.0	45.7		ug/L			91	54 - 132	
Carbon tetrachloride	50.0	53.8		ug/L			108	70 - 130	
Chlorobenzene	50.0	48.7		ug/L			97	70 - 130	
Chloroethane	50.0	42.4		ug/L			85	56 - 152	
Chloroform	50.0	49.4		ug/L			99	70 - 130	
Chloromethane	50.0	44.1		ug/L			88	70 - 130	
cis-1,2-Dichloroethene	50.0	49.0		ug/L			98	70 - 130	
cis-1,3-Dichloropropene	50.0	55.1		ug/L			110	70 - 130	
Dibromochloromethane	50.0	55.0		ug/L			110	70 - 130	
1,2-Dibromo-3-Chloropropane	50.0	51.2		ug/L			102	70 - 130	
1,2-Dibromoethane	50.0	51.6		ug/L			103	70 - 130	
Dibromomethane	50.0	49.5		ug/L			99	70 - 130	
Dichlorodifluoromethane	50.0	46.4		ug/L			93	44 - 146	
1,1-Dichloroethane	50.0	50.2		ug/L			100	70 - 130	
1,2-Dichloroethane	50.0	48.9		ug/L			98	70 - 130	
1,1-Dichloroethene	50.0	46.7		ug/L			93	66 - 131	
1,2-Dichloropropane	50.0	50.4		ug/L			101	70 - 130	
Diethyl ether	50.0	47.2		ug/L			94	10 - 200	
Ethylbenzene	50.0	51.0		ug/L			102	70 - 130	
2-Hexanone	100	107		ug/L			107	42 - 185	
Methylene Chloride	50.0	47.5		ug/L			95	67 - 130	
4-Methyl-2-pentanone (MIBK)	100	99.6		ug/L			100	70 - 130	
Methyl tert-butyl ether	100	98.7		ug/L			99	64 - 131	
Styrene	50.0	52.2		ug/L			104	70 - 130	
t-Butanol	50.0	52.0		ug/L			104	20 - 195	
1,1,1,2-Tetrachloroethane	50.0	53.7		ug/L			107	70 - 130	

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-202323/5

Matrix: Water

Analysis Batch: 202323

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS			Unit	D	% Rec.		Limits
		Result	Qualifier	% Rec			Limits		
1,1,2,2-Tetrachloroethane	50.0	49.7		99	ug/L		70 - 130		
Tetrachloroethene	50.0	47.3		95	ug/L		70 - 130		
Toluene	50.0	50.8		102	ug/L		70 - 130		
trans-1,2-Dichloroethene	50.0	48.9		98	ug/L		70 - 130		
trans-1,3-Dichloropropene	50.0	56.0		112	ug/L		70 - 130		
1,2,3-Trichlorobenzene	50.0	49.3		99	ug/L		70 - 130		
1,1,1-Trichloroethane	50.0	52.8		106	ug/L		70 - 130		
1,1,2-Trichloroethane	50.0	50.9		102	ug/L		70 - 130		
Trichloroethylene	50.0	50.7		101	ug/L		70 - 130		
Trichlorofluoromethane	50.0	42.9		86	ug/L		55 - 156		
1,2,3-Trichloropropane	50.0	48.6		97	ug/L		70 - 130		
Vinyl acetate	100	147		147	ug/L		60 - 176		
Vinyl chloride	50.0	49.0		98	ug/L		67 - 134		
Xylenes, Total	150	152		101	ug/L		70 - 130		
<b>Surrogate</b>		<b>LCS</b>	<b>LCS</b>						
		% Recovery	Qualifier						
4-Bromofluorobenzene		101		70 - 130					
Dibromofluoromethane		99		70 - 130					
Toluene-d8 (Surr)		102		70 - 130					

Lab Sample ID: LCSD 680-202323/6

Matrix: Water

Analysis Batch: 202323

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD			Unit	D	% Rec.		RPD	Limit
		Result	Qualifier	% Rec			Limits	RPD		
Acetone	100	100		100	ug/L		26 - 180	2	50	
Benzene	50.0	51.6		103	ug/L		70 - 130	1	30	
Bromodichloromethane	50.0	53.9		108	ug/L		70 - 130	1	30	
Bromoform	50.0	43.9		88	ug/L		70 - 130	2	30	
Bromomethane	50.0	41.4		83	ug/L		23 - 165	10	50	
2-Butanone	100	92.0		92	ug/L		49 - 172	1	30	
Carbon disulfide	50.0	44.4		89	ug/L		54 - 132	3	30	
Carbon tetrachloride	50.0	54.7		109	ug/L		70 - 130	2	30	
Chlorobenzene	50.0	48.1		96	ug/L		70 - 130	1	30	
Chloroethane	50.0	40.2		80	ug/L		56 - 152	5	40	
Chloroform	50.0	49.8		100	ug/L		70 - 130	1	30	
Chloromethane	50.0	43.3		87	ug/L		70 - 130	2	30	
cis-1,2-Dichloroethene	50.0	49.2		98	ug/L		70 - 130	0	30	
cis-1,3-Dichloropropene	50.0	55.2		110	ug/L		70 - 130	0	30	
Dibromochloromethane	50.0	53.7		107	ug/L		70 - 130	2	50	
1,2-Dibromo-3-Chloropropane	50.0	50.4		101	ug/L		70 - 130	2	50	
1,2-Dibromoethane	50.0	52.8		106	ug/L		70 - 130	2	30	
Dibromomethane	50.0	50.9		102	ug/L		70 - 130	3	30	
Dichlorodifluoromethane	50.0	46.0		92	ug/L		44 - 146	1	50	
1,1-Dichloroethane	50.0	49.5		99	ug/L		70 - 130	1	30	
1,2-Dichloroethane	50.0	50.4		101	ug/L		70 - 130	3	30	
1,1-Dichloroethene	50.0	46.4		93	ug/L		66 - 131	1	30	
1,2-Dichloropropane	50.0	52.0		104	ug/L		70 - 130	3	30	
Diethyl ether	50.0	47.7		95	ug/L		10 - 200	1	50	

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-202323/6

Matrix: Water

Analysis Batch: 202323

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	% Rec.	% Rec.	RPD	RPD Limit
	Added	Result	Qualifier				Limits		
Ethylbenzene	50.0	50.1		ug/L	100	100	70 - 130	2	30
2-Hexanone	100	109		ug/L	109	42 - 185	2	30	
Methylene Chloride	50.0	46.6		ug/L	93	67 - 130	2	30	
4-Methyl-2-pentanone (MIBK)	100	100		ug/L	100	70 - 130	1	30	
Methyl tert-butyl ether	100	99.3		ug/L	99	64 - 131	1	30	
Styrene	50.0	51.3		ug/L	103	70 - 130	2	30	
t-Butanol	50.0	51.7		ug/L	103	20 - 195	1	50	
1,1,1,2-Tetrachloroethane	50.0	53.2		ug/L	106	70 - 130	1	30	
1,1,2,2-Tetrachloroethane	50.0	49.1		ug/L	98	70 - 130	1	30	
Tetrachloroethene	50.0	46.7		ug/L	93	70 - 130	1	30	
Toluene	50.0	51.4		ug/L	103	70 - 130	1	30	
trans-1,2-Dichloroethene	50.0	48.1		ug/L	96	70 - 130	2	30	
trans-1,3-Dichloropropene	50.0	56.4		ug/L	113	70 - 130	1	50	
1,2,3-Trichlorobenzene	50.0	49.4		ug/L	99	70 - 130	0	30	
1,1,1-Trichloroethane	50.0	52.5		ug/L	105	70 - 130	1	30	
1,1,2-Trichloroethane	50.0	51.8		ug/L	104	70 - 130	2	30	
Trichloroethylene	50.0	51.1		ug/L	102	70 - 130	1	30	
Trichlorofluoromethane	50.0	41.5		ug/L	83	55 - 156	3	30	
1,2,3-Trichloropropane	50.0	47.7		ug/L	95	70 - 130	2	30	
Vinyl acetate	100	147		ug/L	147	60 - 176	0	30	
Vinyl chloride	50.0	47.9		ug/L	96	67 - 134	2	30	
Xylenes, Total	150	150		ug/L	100	70 - 130	2	30	

LCSD LCSD

Surrogate	LCSD	LCSD	Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	98		70 - 130
Toluene-d8 (Surf)	102		70 - 130

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 680-202119/11-A

Matrix: Water

Analysis Batch: 204675

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 202119

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Acenaphthylene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Acetophenone	0.215	J	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
2-Acetylaminofluorene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
alpha,alpha-Dimethyl phenethylamine	10	U	10	3.4	ug/L		05/06/11 14:51	06/02/11 19:05	1
4-Aminobiphenyl	5.0	U	5.0	0.31	ug/L		05/06/11 14:51	06/02/11 19:05	1
Aniline	2.0	U	2.0	0.97	ug/L		05/06/11 14:51	06/02/11 19:05	1
Anthracene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Aramite, Total	1.5	U	1.5	0.11	ug/L		05/06/11 14:51	06/02/11 19:05	1
Benz[a]anthracene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Benz[a]pyrene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Benz[b]fluoranthene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Benz[g,h,i]perylene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Benz[k]fluoranthene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

**Lab Sample ID: MB 680-202119/11-A**

**Matrix: Water**

**Analysis Batch: 204675**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 202119**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl alcohol	1.0	U	1.0	0.14	ug/L		05/06/11 14:51	06/02/11 19:05	1
1,1'-Biphenyl	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.64	ug/L		05/06/11 14:51	06/02/11 19:05	1
4-Bromophenyl phenyl ether	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 19:05	1
Butyl benzyl phthalate	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 19:05	1
4-Chloroaniline	2.0	U	2.0	0.36	ug/L		05/06/11 14:51	06/02/11 19:05	1
4-Chloro-3-methylphenol	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 19:05	1
2-Chloronaphthalene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
2-Chlorophenol	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 19:05	1
4-Chlorophenyl phenyl ether	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Chrysene	0.20	U	0.20	0.045	ug/L		05/06/11 14:51	06/02/11 19:05	1
Diallate	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Dibenzofuran	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
1,2-Dichlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
1,3-Dichlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
1,4-Dichlorobenzene	0.444	J	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
3,3'-Dichlorobenzidine	20	U	20	2.0	ug/L		05/06/11 14:51	06/02/11 19:05	1
2,4-Dichlorophenol	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
2,6-Dichlorophenol	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Diethyl phthalate	1.0	U	1.0	0.11	ug/L		05/06/11 14:51	06/02/11 19:05	1
Dimethoate	2.0	U	2.0	0.12	ug/L		05/06/11 14:51	06/02/11 19:05	1
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	0.20	ug/L		05/06/11 14:51	06/02/11 19:05	1
3,3'-Dimethylbenzidine	20	U	20	5.0	ug/L		05/06/11 14:51	06/02/11 19:05	1
2,4-Dimethylphenol	2.0	U	2.0	0.69	ug/L		05/06/11 14:51	06/02/11 19:05	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Di-n-butyl phthalate	1.0	U	1.0	0.39	ug/L		05/06/11 14:51	06/02/11 19:05	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.13	ug/L		05/06/11 14:51	06/02/11 19:05	1
2,4-Dinitrophenol	10	U	10	1.1	ug/L		05/06/11 14:51	06/02/11 19:05	1
2,4-Dinitrotoluene	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 19:05	1
2,6-Dinitrotoluene	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 19:05	1
Di-n-octyl phthalate	1.0	U	1.0	0.17	ug/L		05/06/11 14:51	06/02/11 19:05	1
1,4-Dioxane	2.0	U	2.0	0.31	ug/L		05/06/11 14:51	06/02/11 19:05	1
Disulfoton	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Ethyl methanesulfonate	2.0	U	2.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Ethyl Parathion	2.0	U	2.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Famphur	1.0	U	1.0	0.16	ug/L		05/06/11 14:51	06/02/11 19:05	1
Fluoranthene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Fluorene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Hexachlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Hexachlorobutadiene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Hexachlorocyclopentadiene	2.0	U	2.0	0.50	ug/L		05/06/11 14:51	06/02/11 19:05	1
Hexachloroethane	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 19:05	1
Hexachlorophene	500	U	500	25	ug/L		05/06/11 14:51	06/02/11 19:05	1
Hexachloropropene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Isophorone	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Isosafrole	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

**Lab Sample ID: MB 680-202119/11-A**

**Matrix: Water**

**Analysis Batch: 204675**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 202119**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Dinitrobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Methapyrilene	200	U	200	1.3	ug/L		05/06/11 14:51	06/02/11 19:05	1
3-Methylcholanthrene	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 19:05	1
Methyl methanesulfonate	2.0	U	2.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
2-Methylnaphthalene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Methyl parathion	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 19:05	1
2-Methylphenol	2.0	U	2.0	0.74	ug/L		05/06/11 14:51	06/02/11 19:05	1
3 & 4 Methylphenol	2.0	U	2.0	0.66	ug/L		05/06/11 14:51	06/02/11 19:05	1
1-Naphthalenamine	5.0	U	5.0	1.3	ug/L		05/06/11 14:51	06/02/11 19:05	1
2-Naphthalenamine	5.0	U	5.0	1.3	ug/L		05/06/11 14:51	06/02/11 19:05	1
Naphthalene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
1,4-Naphthoquinone	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 19:05	1
2-Nitroaniline	1.0	U	1.0	0.16	ug/L		05/06/11 14:51	06/02/11 19:05	1
3-Nitroaniline	5.0	U	5.0	0.16	ug/L		05/06/11 14:51	06/02/11 19:05	1
4-Nitroaniline	5.0	U	5.0	0.50	ug/L		05/06/11 14:51	06/02/11 19:05	1
Nitrobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
5-Nitro-o-toluidine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
2-Nitrophenol	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
4-Nitrophenol	5.0	U	5.0	0.50	ug/L		05/06/11 14:51	06/02/11 19:05	1
4-Nitroquinoline-1-oxide	2.0	U	2.0	1.1	ug/L		05/06/11 14:51	06/02/11 19:05	1
N-Nitrosodiethylamine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
N-Nitrosodimethylamine	1.0	U	1.0	0.25	ug/L		05/06/11 14:51	06/02/11 19:05	1
N-Nitrosodi-n-butylamine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 19:05	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.37	ug/L		05/06/11 14:51	06/02/11 19:05	1
N-Nitrosomethylalkylamine	2.0	U	2.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
N-Nitrosomorpholine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
N-Nitrosopiperidine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
N-Nitrosopyrrolidine	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
o,o",o"-Triethylphosphorothioate	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 19:05	1
o-Toluidine	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 19:05	1
2,2'-oxybis[1-chloropropane]	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
p-Dimethylamino azobenzene	5.0	U	5.0	0.15	ug/L		05/06/11 14:51	06/02/11 19:05	1
Pentachlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Pentachloronitrobenzene	1.0	U	1.0	0.50	ug/L		05/06/11 14:51	06/02/11 19:05	1
Pentachlorophenol	5.0	U	5.0	0.40	ug/L		05/06/11 14:51	06/02/11 19:05	1
Phenacetin	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Phenanthrene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Phenol	1.0	U	1.0	0.13	ug/L		05/06/11 14:51	06/02/11 19:05	1
Phenyl ether	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Phorate	1.0	U	1.0	0.20	ug/L		05/06/11 14:51	06/02/11 19:05	1
2-Picoline	2.0	U	2.0	0.15	ug/L		05/06/11 14:51	06/02/11 19:05	1
p-Phenylenediamine	200	U	200	16	ug/L		05/06/11 14:51	06/02/11 19:05	1
Pronamide	1.0	U	1.0	0.12	ug/L		05/06/11 14:51	06/02/11 19:05	1
Pyrene	0.20	U	0.20	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
Pyridine	5.0	U	5.0	0.73	ug/L		05/06/11 14:51	06/02/11 19:05	1
Safrole, Total	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1
2-sec-Butyl-4,6-dinitrophenol	2.0	U	2.0	0.15	ug/L		05/06/11 14:51	06/02/11 19:05	1
Sulfotep	1.0	U	1.0	0.14	ug/L		05/06/11 14:51	06/02/11 19:05	1
1,2,4,5-Tetrachlorobenzene	1.0	U	1.0	0.10	ug/L		05/06/11 14:51	06/02/11 19:05	1

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

**Lab Sample ID: MB 680-202119/11-A**

**Matrix: Water**

**Analysis Batch: 204675**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 202119**

Analyte	MB		MB		D	Prepared	Analyzed	Dil Fac
	Result	Qualifier	RL	MDL				
2,3,4,6-Tetrachlorophenol	1.0	U	1.0	0.10	ug/L	05/06/11 14:51	06/02/11 19:05	1
Thionazin	1.0	U	1.0	0.20	ug/L	05/06/11 14:51	06/02/11 19:05	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.10	ug/L	05/06/11 14:51	06/02/11 19:05	1
2,4,5-Trichlorophenol	1.0	U	1.0	0.12	ug/L	05/06/11 14:51	06/02/11 19:05	1
2,4,6-Trichlorophenol	1.0	U	1.0	0.17	ug/L	05/06/11 14:51	06/02/11 19:05	1
1,3,5-Trinitrobenzene	1.0	U	1.0	0.50	ug/L	05/06/11 14:51	06/02/11 19:05	1

Tentatively Identified Compound	MB		MB		D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier	Unit	Dil Fac						
Unknown Aldol Condensate	9.91	T A J	ug/L		2.90			05/06/11 14:51	06/02/11 19:05	1
Unknown	2.33	T J	ug/L		2.94			05/06/11 14:51	06/02/11 19:05	1
Unknown	3.19	T J	ug/L		4.09			05/06/11 14:51	06/02/11 19:05	1
2-Undecanone	0.926	T J N	ug/L		6.70	112-12-9	05/06/11 14:51	06/02/11 19:05	1	
Unknown	0.805	T J	ug/L		7.73			05/06/11 14:51	06/02/11 19:05	1
Unknown	1.08	T J	ug/L		11.24			05/06/11 14:51	06/02/11 19:05	1
Unknown	3.63	T J	ug/L		11.43			05/06/11 14:51	06/02/11 19:05	1
Unknown Organic Acid	2.76	T J	ug/L		12.28			05/06/11 14:51	06/02/11 19:05	1
Triaccontane	0.834	T J N	ug/L		13.84	638-68-6	05/06/11 14:51	06/02/11 19:05	1	
Unknown	0.986	T J	ug/L		15.88			05/06/11 14:51	06/02/11 19:05	1

Surrogate	MB		MB		Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier	Unit	Dil Fac				
2-Fluorobiphenyl	58		34 - 130			05/06/11 14:51	06/02/11 19:05	1
2-Fluorophenol	62		25 - 130			05/06/11 14:51	06/02/11 19:05	1
Nitrobenzene-d5	58		32 - 130			05/06/11 14:51	06/02/11 19:05	1
Phenol-d5	49		27 - 130			05/06/11 14:51	06/02/11 19:05	1
Terphenyl-d14	74		36 - 130			05/06/11 14:51	06/02/11 19:05	1
2,4,6-Tribromophenol	42		30 - 130			05/06/11 14:51	06/02/11 19:05	1

**Lab Sample ID: LCS 680-202119/12-A**

**Matrix: Water**

**Analysis Batch: 204675**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 202119**

Analyte	Spike		LCS		Unit	D	% Rec	Limits
	Added	Result	Qualifier	Dil Fac				
Acenaphthene	2.00	1.27			ug/L		64	42 - 130
Acenaphthylene	2.00	1.30			ug/L		65	45 - 130
Acetophenone	10.0	6.12			ug/L		61	45 - 130
Aniline	10.0	4.16			ug/L		42	10 - 130
Anthracene	2.00	1.72			ug/L		86	58 - 130
Benz[a]anthracene	2.00	1.53			ug/L		76	42 - 143
Benz[a]pyrene	2.00	1.72			ug/L		86	45 - 151
Benz[b]fluoranthene	2.00	1.45			ug/L		73	41 - 140
Benz[g,h,i]perylene	2.00	1.75			ug/L		88	27 - 134
Benz[k]fluoranthene	2.00	1.91			ug/L		95	45 - 140
Benzyl alcohol	10.0	5.73			ug/L		57	34 - 130
1,1'-Biphenyl	10.0	6.49			ug/L		65	50 - 130
Bis(2-chloroethoxy)methane	10.0	6.22			ug/L		62	47 - 130
Bis(2-chloroethyl)ether	10.0	9.21			ug/L		92	36 - 130
Bis(2-ethylhexyl) phthalate	10.0	8.54			ug/L		85	10 - 158
4-Bromophenyl phenyl ether	10.0	7.43			ug/L		74	44 - 130
Butyl benzyl phthalate	10.0	8.24			ug/L		82	60 - 130

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

**Lab Sample ID: LCS 680-202119/12-A**

**Matrix: Water**

**Analysis Batch: 204675**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 202119**

Analyte	Spike Added	LCS		Unit	D	% Rec	% Rec.	Limits
		Result	Qualifier					
4-Chloroaniline	10.0	5.61		ug/L		56	17 - 130	
4-Chloro-3-methylphenol	10.0	7.07		ug/L		71	54 - 130	
2-Chloronaphthalene	10.0	5.84		ug/L		58	48 - 130	
2-Chlorophenol	10.0	6.82		ug/L		68	45 - 130	
4-Chlorophenyl phenyl ether	10.0	6.99		ug/L		70	52 - 130	
Chrysene	2.00	1.58		ug/L		79	40 - 142	
Dibenz(a,h)anthracene	2.00	1.82		ug/L		91	38 - 130	
Dibenzofuran	10.0	6.52		ug/L		65	56 - 130	
1,2-Dichlorobenzene	10.0	5.41		ug/L		54	36 - 130	
1,3-Dichlorobenzene	10.0	5.23		ug/L		52	31 - 130	
1,4-Dichlorobenzene	10.0	5.06		ug/L		51	34 - 130	
3,3'-Dichlorobenzidine	10.0	8.00 J		ug/L		80	10 - 158	
2,4-Dichlorophenol	10.0	6.71		ug/L		67	58 - 130	
Diethyl phthalate	10.0	7.09		ug/L		71	60 - 130	
2,4-Dimethylphenol	10.0	4.93		ug/L		49	41 - 130	
Dimethyl phthalate	10.0	7.16		ug/L		72	58 - 130	
Di-n-butyl phthalate	10.0	8.17		ug/L		82	59 - 130	
4,6-Dinitro-2-methylphenol	10.0	5.33		ug/L		53	10 - 182	
2,4-Dinitrophenol	10.0	4.78 J		ug/L		48	10 - 200	
2,4-Dinitrotoluene	10.0	6.31		ug/L		63	57 - 130	
2,6-Dinitrotoluene	10.0	6.60		ug/L		66	53 - 130	
Di-n-octyl phthalate	10.0	9.13		ug/L		91	19 - 130	
1,4-Dioxane	10.0	4.36		ug/L		44	10 - 130	
Fluoranthene	2.00	1.49		ug/L		74	46 - 136	
Fluorene	2.00	1.34		ug/L		67	48 - 130	
Hexachlorobenzene	10.0	6.69		ug/L		67	49 - 130	
Hexachlorobutadiene	10.0	5.92		ug/L		59	36 - 130	
Hexachlorocyclopentadiene	10.0	3.35		ug/L		34	16 - 130	
Hexachloroethane	10.0	4.92		ug/L		49	32 - 130	
Indeno[1,2,3-cd]pyrene	2.00	1.64		ug/L		82	12 - 130	
Isophorone	10.0	5.37		ug/L		54	45 - 130	
2-Methylnaphthalene	2.00	1.44		ug/L		72	51 - 130	
2-Methylphenol	10.0	6.46		ug/L		65	49 - 130	
3 & 4 Methylphenol	10.0	6.18		ug/L		62	55 - 130	
Naphthalene	2.00	1.40		ug/L		70	35 - 130	
2-Nitroaniline	10.0	5.77		ug/L		58	48 - 130	
3-Nitroaniline	10.0	6.03		ug/L		60	18 - 147	
4-Nitroaniline	10.0	6.59		ug/L		66	31 - 147	
Nitrobenzene	10.0	5.10		ug/L		51	45 - 130	
2-Nitrophenol	10.0	6.83		ug/L		68	49 - 130	
4-Nitrophenol	10.0	4.22 J		ug/L		42	36 - 132	
N-Nitrosodimethylamine	10.0	5.33		ug/L		53	29 - 130	
N-Nitrosodi-n-propylamine	10.0	6.15		ug/L		62	42 - 130	
N-Nitrosodiphenylamine	10.0	7.46		ug/L		75	38 - 130	
2,2'-oxybis[1-chloropropane]	10.0	4.77		ug/L		48	39 - 130	
Pentachlorophenol	10.0	3.50 J		ug/L		35	12 - 156	
Phenanthrene	2.00	1.46		ug/L		73	45 - 134	
Phenol	10.0	4.53		ug/L		45	44 - 130	
Pyrene	2.00	1.51		ug/L		76	47 - 143	
Pyridine	10.0	4.49 J		ug/L		45	10 - 130	

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

**Lab Sample ID: LCS 680-202119/12-A**

**Matrix: Water**

**Analysis Batch: 204675**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 202119**

Analyte	Spike Added	LCS		Unit	D	% Rec	% Rec.
		Result	Qualifier				
1,2,4-Trichlorobenzene	10.0	5.60		ug/L		56	39 - 130
2,4,5-Trichlorophenol	10.0	7.52		ug/L		75	61 - 130
2,4,6-Trichlorophenol	10.0	7.00		ug/L		70	61 - 130

Surrogate	LCS		Limits
	% Recovery	Qualifier	
2-Fluorobiphenyl	67		34 - 130
2-Fluorophenol	60		25 - 130
Nitrobenzene-d5	60		32 - 130
Phenol-d5	58		27 - 130
Terphenyl-d14	73		36 - 130
2,4,6-Tribromophenol	71		30 - 130

**Lab Sample ID: LCS 680-202119/15-A**

**Matrix: Water**

**Analysis Batch: 204675**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 202119**

Analyte	Spike Added	LCS		Unit	D	% Rec	% Rec.
		Result	Qualifier				
2-Acetylaminofluorene	10.0	8.40		ug/L		84	10 - 130
alpha,alpha-Dimethyl phenethylamine	10.0	6.73	J	ug/L		67	10 - 130
4-Aminobiphenyl	10.0	5.69		ug/L		57	10 - 130
Aramite, Total	10.0	9.20		ug/L		92	10 - 130
Diallate	10.0	7.67		ug/L		77	10 - 130
2,6-Dichlorophenol	10.0	9.07		ug/L		91	10 - 130
Dimethoate	10.0	8.51		ug/L		85	10 - 130
7,12-Dimethylbenz(a)anthracene	10.0	7.85		ug/L		78	10 - 130
3,3'-Dimethylbenzidine	25.0	30.0		ug/L		120	10 - 130
Disulfoton	10.0	8.12		ug/L		81	10 - 130
Ethyl methanesulfonate	10.0	5.08		ug/L		51	10 - 130
Ethyl Parathion	10.0	10.1		ug/L		101	10 - 130
Famphur	10.0	0.995	J	ug/L		10	10 - 130
Hexachlorophene	50.0	500	U *	ug/L		8	10 - 130
Hexachloropropene	10.0	3.68		ug/L		37	10 - 130
Isosafrole	10.0	8.72		ug/L		87	10 - 130
m-Dinitrobenzene	10.0	9.14		ug/L		91	10 - 130
Methapyrilene	50.0	36.3	J	ug/L		73	10 - 130
3-Methylcholanthrene	10.0	9.36		ug/L		94	10 - 130
Methyl methanesulfonate	10.0	10.1		ug/L		101	10 - 130
Methyl parathion	10.0	9.07		ug/L		91	10 - 130
1-Naphthalenamine	10.0	6.19		ug/L		62	10 - 130
2-Naphthalenamine	10.0	5.51		ug/L		55	10 - 130
1,4-Naphthoquinone	10.0	3.93		ug/L		39	10 - 130
5-Nitro-o-toluidine	10.0	9.20		ug/L		92	10 - 130
4-Nitroquinoline-1-oxide	10.0	5.94		ug/L		59	10 - 130
N-Nitrosodiethylamine	10.0	8.56		ug/L		86	10 - 130
N-Nitrosodi-n-butylamine	10.0	7.72		ug/L		77	10 - 130
N-Nitrosomethylethylamine	10.0	8.01		ug/L		80	10 - 130
N-Nitrosomorpholine	10.0	6.87		ug/L		69	10 - 130
N-Nitrosopiperidine	10.0	8.89		ug/L		89	10 - 130
N-Nitrosopyrrolidine	10.0	7.31		ug/L		73	10 - 130

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

TestAmerica Job ID: 680-67898-1

Project/Site: Aqualon Hopewell - GW CA APR 2011

SDG: HAQ036

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

**Lab Sample ID: LCS 680-202119/15-A**

**Client Sample ID: Lab Control Sample**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 204675**

**Prep Batch: 202119**

Analyte	Spike Added	LCS		Unit	D	% Rec	% Rec.	Limits
		Result	Qualifier					
o,o',o"-Triethylphosphorothioate	10.0	7.57		ug/L	76	10 - 130		
o-Toluidine	10.0	6.78		ug/L	68	10 - 130		
p-Dimethylamino azobenzene	10.0	8.83		ug/L	88	10 - 130		
Pentachlorobenzene	10.0	8.67		ug/L	87	10 - 130		
Pentachloronitrobenzene	10.0	9.65		ug/L	97	10 - 130		
Phenacetin	10.0	9.32		ug/L	93	10 - 130		
Phorate	10.0	9.48		ug/L	95	10 - 130		
2-Picoline	10.0	6.96		ug/L	70	10 - 130		
p-Phenylenediamine	50.0	200 U		ug/L	26	10 - 130		
Pronamide	10.0	9.44		ug/L	94	10 - 130		
Safrole, Total	10.0	7.96		ug/L	80	10 - 130		
2-sec-Butyl-4,6-dinitrophenol	10.0	7.19		ug/L	72	10 - 130		
Sulfotep	10.0	9.10		ug/L	91	10 - 130		
1,2,4,5-Tetrachlorobenzene	10.0	6.93		ug/L	69	10 - 130		
2,3,4,6-Tetrachlorophenol	10.0	10.7		ug/L	107	10 - 130		
Thionazin	10.0	9.80		ug/L	98	10 - 130		
1,3,5-Trinitrobenzene	10.0	9.44		ug/L	94	10 - 130		

LCS LCS

Surrogate	% Recovery	Qualifier	Limits
2-Fluorobiphenyl	65		34 - 130
2-Fluorophenol	56		25 - 130
Nitrobenzene-d5	57		32 - 130
Phenol-d5	51		27 - 130
Terphenyl-d14	66		36 - 130
2,4,6-Tribromophenol	72		30 - 130

**Lab Sample ID: LCSD 680-202119/16-A**

**Client Sample ID: Lab Control Sample Dup**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 204675**

**Prep Batch: 202119**

Analyte	Spike Added	LCSD		Unit	D	% Rec	Limits	RPD	Limit
		Result	Qualifier						
2-Acetylaminofluorene	10.0	9.58		ug/L	96	10 - 130	13	50	
alpha,alpha-Dimethylphenethylamine	10.0	8.04 J		ug/L	80	10 - 130	18	50	
4-Aminobiphenyl	10.0	6.21		ug/L	62	10 - 130	9	50	
Aramite, Total	10.0	9.93		ug/L	99	10 - 130	8	50	
Diallate	10.0	8.10		ug/L	81	10 - 130	6	50	
2,6-Dichlorophenol	10.0	9.51		ug/L	95	10 - 130	5	50	
Dimethoate	10.0	9.12		ug/L	91	10 - 130	7	50	
7,12-Dimethylbenz(a)anthracene	10.0	8.32		ug/L	83	10 - 130	6	50	
3,3'-Dimethylbenzidine	25.0	31.2		ug/L	125	10 - 130	4	50	
Disulfoton	10.0	8.90		ug/L	89	10 - 130	9	50	
Ethyl methanesulfonate	10.0	6.19		ug/L	62	10 - 130	20	50	
Ethyl Parathion	10.0	11.4		ug/L	114	10 - 130	11	50	
Famphur	10.0	0.889 J *		ug/L	9	10 - 130	11	50	
Hexachlorophene	50.0	500 U *		ug/L	9	10 - 130	18	50	
Hexachloropropene	10.0	4.05		ug/L	40	10 - 130	9	50	
Isosafrole	10.0	8.98		ug/L	90	10 - 130	3	50	
m-Dinitrobenzene	10.0	9.90		ug/L	99	10 - 130	8	50	
Methapyrilene	50.0	41.7 J		ug/L	83	10 - 130	14	50	

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

**Lab Sample ID: LCSD 680-202119/16-A**

**Matrix: Water**

**Analysis Batch: 204675**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 202119**

Analyte	Spike Added	LCSD		Unit	D	% Rec	% Rec.		RPD	RPD Limit
		Result	Qualifier				Limits	RPD		
3-Methylcholanthrene	10.0	9.79		ug/L		98	10 - 130	4	50	
Methyl methanesulfonate	10.0	11.5		ug/L		115	10 - 130	13	50	
Methyl parathion	10.0	9.80		ug/L		98	10 - 130	8	50	
1-Naphthalenamine	10.0	6.72		ug/L		67	10 - 130	8	50	
2-Naphthalenamine	10.0	5.57		ug/L		56	10 - 130	1	50	
1,4-Naphthoquinone	10.0	4.86		ug/L		49	10 - 130	21	50	
5-Nitro-o-toluidine	10.0	9.50		ug/L		95	10 - 130	3	50	
4-Nitroquinoline-1-oxide	10.0	6.80		ug/L		68	10 - 130	14	50	
N-Nitrosodiethylamine	10.0	8.06		ug/L		81	10 - 130	6	50	
N-Nitrosodi-n-butylamine	10.0	8.30		ug/L		83	10 - 130	7	50	
N-Nitrosomethylalkylamine	10.0	10.1		ug/L		101	10 - 130	23	50	
N-Nitrosomorpholine	10.0	8.25		ug/L		82	10 - 130	18	50	
N-Nitrosopiperidine	10.0	9.38		ug/L		94	10 - 130	5	50	
N-Nitrosopyrrolidine	10.0	8.39		ug/L		84	10 - 130	14	50	
o,o'-Triethylphosphorothioate	10.0	7.78		ug/L		78	10 - 130	3	50	
o-Toluidine	10.0	7.40		ug/L		74	10 - 130	9	50	
p-Dimethylamino azobenzene	10.0	9.72		ug/L		97	10 - 130	10	50	
Pentachlorobenzene	10.0	9.10		ug/L		91	10 - 130	5	50	
Pentachloronitrobenzene	10.0	10.6		ug/L		106	10 - 130	9	50	
Phenacetin	10.0	9.75		ug/L		97	10 - 130	5	50	
Phorate	10.0	10.7		ug/L		107	10 - 130	12	50	
2-Picoline	10.0	8.17		ug/L		82	10 - 130	16	50	
p-Phenylenediamine	50.0	200	U	ug/L		26	10 - 130	3	50	
Pronamide	10.0	10.4		ug/L		104	10 - 130	10	50	
Safrole, Total	10.0	8.67		ug/L		87	10 - 130	8	50	
2-sec-Butyl-4,6-dinitrophenol	10.0	8.62		ug/L		86	10 - 130	18	50	
Sulfotep	10.0	9.85		ug/L		99	10 - 130	8	50	
1,2,4,5-Tetrachlorobenzene	10.0	7.17		ug/L		72	10 - 130	3	50	
2,3,4,6-Tetrachlorophenol	10.0	11.5		ug/L		115	10 - 130	8	50	
Thionazin	10.0	10.8		ug/L		108	10 - 130	10	50	
1,3,5-Trinitrobenzene	10.0	9.93		ug/L		99	10 - 130	5	50	

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
2-Fluorobiphenyl	68		34 - 130
2-Fluorophenol	67		25 - 130
Nitrobenzene-d5	60		32 - 130
Phenol-d5	59		27 - 130
Terphenyl-d14	72		36 - 130
2,4,6-Tribromophenol	73		30 - 130

**Lab Sample ID: 680-67898-2 MS**

**Matrix: Water**

**Analysis Batch: 204675**

**Client Sample ID: MW-4**

**Prep Type: Total/NA**

**Prep Batch: 202119**

Analyte	Sample		Spike Added	MS		Unit	D	% Rec	% Rec.	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Acenaphthene	0.19	U	1.91	0.986		ug/L		52	42 - 130	
Acenaphthylene	0.19	U	1.91	1.01		ug/L		53	45 - 130	
Acetophenone	0.13	J B	9.54	4.09	F	ug/L		42	45 - 130	
Aniline	1.9	U	9.54	1.9	U F	ug/L		0	10 - 130	

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

**Lab Sample ID: 680-67898-2 MS**

**Matrix: Water**

**Analysis Batch: 204675**

**Client Sample ID: MW-4**

**Prep Type: Total/NA**

**Prep Batch: 202119**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	% Rec	% Rec.
	Result	Qualifier	Added	Result	Qualifier				
Anthracene	0.19	U	1.91	1.13		ug/L	59	58 - 130	
Benzo[a]anthracene	0.19	U	1.91	1.11		ug/L	58	42 - 143	
Benzo[a]pyrene	0.19	U	1.91	0.824	F	ug/L	43	45 - 151	
Benzo[b]fluoranthene	0.19	U	1.91	0.905		ug/L	47	41 - 140	
Benzo[g,h,i]perylene	0.19	U	1.91	0.424	F	ug/L	22	27 - 134	
Benzo[k]fluoranthene	0.19	U	1.91	0.900		ug/L	47	45 - 140	
Benzyl alcohol	0.96	U	9.54	2.14	F	ug/L	22	34 - 130	
1,1'-Biphenyl	0.96	U	9.54	4.77		ug/L	50	50 - 130	
Bis(2-chloroethoxy)methane	0.96	U	9.54	4.61		ug/L	48	47 - 130	
Bis(2-chloroethyl)ether	0.96	U	9.54	2.67	F	ug/L	28	36 - 130	
Bis(2-ethylhexyl) phthalate	1.9	U	9.54	0.781	J F	ug/L	8	10 - 158	
4-Bromophenyl phenyl ether	0.96	U	9.54	5.64		ug/L	59	44 - 130	
Butyl benzyl phthalate	0.96	U	9.54	6.11		ug/L	64	60 - 130	
4-Chloroaniline	1.9	U	9.54	1.9	U F	ug/L	0	17 - 130	
4-Chloro-3-methylphenol	0.96	U	9.54	5.29		ug/L	55	54 - 130	
2-Chloronaphthalene	0.96	U	9.54	4.42	F	ug/L	46	48 - 130	
2-Chlorophenol	0.96	U	9.54	4.44		ug/L	47	45 - 130	
4-Chlorophenyl phenyl ether	0.96	U	9.54	5.23		ug/L	55	52 - 130	
Chrysene	0.19	U	1.91	1.14		ug/L	60	40 - 142	
Dibenz(a,h)anthracene	0.19	U	1.91	0.396	F	ug/L	21	38 - 130	
Dibenzofuran	0.96	U	9.54	5.11	F	ug/L	54	56 - 130	
1,2-Dichlorobenzene	0.96	U	9.54	3.73		ug/L	39	36 - 130	
1,3-Dichlorobenzene	0.96	U	9.54	3.54		ug/L	37	31 - 130	
1,4-Dichlorobenzene	0.41	J B	9.54	3.58	F	ug/L	33	34 - 130	
3,3'-Dichlorobenzidine	19	U	9.54	19	U F	ug/L	0	10 - 158	
2,4-Dichlorophenol	0.96	U	9.54	5.04	F	ug/L	53	58 - 130	
Diethyl phthalate	0.96	U	9.54	5.34	F	ug/L	56	60 - 130	
2,4-Dimethylphenol	1.9	U	9.54	3.24	F	ug/L	34	41 - 130	
Dimethyl phthalate	0.96	U	9.54	5.34	F	ug/L	56	58 - 130	
Di-n-butyl phthalate	0.96	U	9.54	5.91		ug/L	62	59 - 130	
4,6-Dinitro-2-methylphenol	4.8	U	9.54	4.79	J	ug/L	50	10 - 182	
2,4-Dinitrophenol	9.6	U	9.54	6.81	J	ug/L	71	10 - 200	
2,4-Dinitrotoluene	0.96	U	9.54	5.21	F	ug/L	55	57 - 130	
2,6-Dinitrotoluene	0.96	U	9.54	4.87	F	ug/L	51	53 - 130	
Di-n-octyl phthalate	0.96	U	9.54	0.540	J F	ug/L	6	19 - 130	
1,4-Dioxane	4.0		9.54	5.32		ug/L	14	10 - 130	
Fluoranthene	0.19	U	1.91	1.26		ug/L	66	46 - 136	
Fluorene	0.19	U	1.91	1.15		ug/L	60	48 - 130	
Hexachlorobenzene	0.96	U	9.54	4.89		ug/L	51	49 - 130	
Hexachlorobutadiene	0.96	U	9.54	3.84		ug/L	40	36 - 130	
Hexachlorocyclopentadiene	1.9	U	9.54	2.60		ug/L	27	16 - 130	
Hexachloroethane	0.96	U	9.54	4.91		ug/L	51	32 - 130	
Indeno[1,2,3-cd]pyrene	0.19	U	1.91	0.419		ug/L	22	12 - 130	
Isophorone	0.96	U	9.54	3.62	F	ug/L	38	45 - 130	
2-Methylnaphthalene	0.19	U	1.91	2.96	F	ug/L	155	51 - 130	
2-Methylphenol	1.9	U	9.54	1.9	U F	ug/L	0	49 - 130	
3 & 4 Methylphenol	1.9	U	9.54	3.03	F	ug/L	32	55 - 130	
Naphthalene	0.19	U	1.91	0.943		ug/L	49	35 - 130	
2-Nitroaniline	0.96	U	9.54	4.26	F	ug/L	45	48 - 130	
3-Nitroaniline	4.8	U	9.54	1.02	J F	ug/L	11	18 - 147	

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

**Lab Sample ID: 680-67898-2 MS**

**Matrix: Water**

**Analysis Batch: 204675**

**Client Sample ID: MW-4**

**Prep Type: Total/NA**

**Prep Batch: 202119**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	% Rec	% Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
4-Nitroaniline	4.8	U	9.54	4.8	U F	ug/L	0	31 - 147	
Nitrobenzene	0.96	U	9.54	3.46	F	ug/L	36	45 - 130	
2-Nitrophenol	0.96	U	9.54	4.78		ug/L	50	49 - 130	
4-Nitrophenol	4.8	U	9.54	4.19	J	ug/L	44	36 - 132	
N-Nitrosodimethylamine	0.96	U	9.54	3.52		ug/L	37	29 - 130	
N-Nitrosodi-n-propylamine	0.96	U	9.54	4.23		ug/L	44	42 - 130	
N-Nitrosodiphenylamine	0.96	U	9.54	5.52		ug/L	58	38 - 130	
2,2'-oxybis[1-chloropropane]	0.96	U	9.54	3.40	F	ug/L	36	39 - 130	
Pentachlorophenol	4.8	U	9.54	6.35		ug/L	67	12 - 156	
Phenanthere	0.19	U	1.91	1.20		ug/L	63	45 - 134	
Phenol	0.96	U	9.54	1.32	F	ug/L	14	44 - 130	
Pyrene	0.19	U	1.91	1.20		ug/L	63	47 - 143	
Pyridine	4.8	U	9.54	2.60	J	ug/L	27	10 - 130	
1,2,4-Trichlorobenzene	0.96	U	9.54	3.90		ug/L	41	39 - 130	
2,4,5-Trichlorophenol	0.96	U	9.54	5.71	F	ug/L	60	61 - 130	
2,4,6-Trichlorophenol	0.96	U	9.54	5.20	F	ug/L	55	61 - 130	
<hr/>									
<b>MS</b> <b>MS</b>									
Surrogate	MS	MS	MS	MS	MS	MS	MS	MS	MS
	% Recovery	Qualifier							Limits
2-Fluorobiphenyl	50								34 - 130
2-Fluorophenol	43								25 - 130
Nitrobenzene-d5	42								32 - 130
Phenol-d5	42								27 - 130
Terphenyl-d14	50								36 - 130
2,4,6-Tribromophenol	62								30 - 130

**Lab Sample ID: 680-67898-2 MSD**

**Matrix: Water**

**Analysis Batch: 204675**

**Client Sample ID: MW-4**

**Prep Type: Total/NA**

**Prep Batch: 202119**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	
Acenaphthene	0.19	U	1.91	1.14		ug/L	60	42 - 130	NC	50
Acenaphthylene	0.19	U	1.91	1.14		ug/L	60	45 - 130	12	50
Acetophenone	0.13	J B	9.53	4.94		ug/L	51	45 - 130	19	50
Aniline	1.9	U	9.53	1.9	U F	ug/L	0	10 - 130	NC	50
Anthracene	0.19	U	1.91	1.27		ug/L	67	58 - 130	11	50
Benzo[a]anthracene	0.19	U	1.91	1.24		ug/L	65	42 - 143	10	50
Benzo[a]pyrene	0.19	U	1.91	1.10		ug/L	57	45 - 151	28	50
Benzo[b]fluoranthene	0.19	U	1.91	1.22		ug/L	64	41 - 140	30	50
Benzo[g,h,i]perylene	0.19	U	1.91	0.671		ug/L	35	27 - 134	45	50
Benzo[k]fluoranthene	0.19	U	1.91	1.18		ug/L	62	45 - 140	27	50
Benzyl alcohol	0.96	U	9.53	2.59	F	ug/L	27	34 - 130	19	50
1,1'-Biphenyl	0.96	U	9.53	5.45		ug/L	57	50 - 130	13	50
Bis(2-chloroethoxy)methane	0.96	U	9.53	5.68		ug/L	60	47 - 130	21	50
Bis(2-chloroethyl)ether	0.96	U	9.53	3.64		ug/L	38	36 - 130	31	50
Bis(2-ethylhexyl) phthalate	1.9	U	9.53	1.18	J	ug/L	12	10 - 158	41	50
4-Bromophenyl phenyl ether	0.96	U	9.53	6.50		ug/L	68	44 - 130	14	50
Butyl benzyl phthalate	0.96	U	9.53	6.80		ug/L	71	60 - 130	11	50
4-Chloroaniline	1.9	U	9.53	1.9	U F	ug/L	0	17 - 130	NC	50
4-Chloro-3-methylphenol	0.96	U	9.53	0.558	J F	ug/L	6	54 - 130	162	50

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 680-67898-2 MSD

Matrix: Water

Analysis Batch: 204675

Client Sample ID: MW-4

Prep Type: Total/NA

Prep Batch: 202119

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
2-Chloronaphthalene	0.96	U	9.53	5.09		ug/L		53	48 - 130	14	50	
2-Chlorophenol	0.96	U	9.53	4.88		ug/L		51	45 - 130	9	50	
4-Chlorophenyl phenyl ether	0.96	U	9.53	5.60		ug/L		59	52 - 130	7	50	
Chrysene	0.19	U	1.91	1.31		ug/L		68	40 - 142	13	50	
Dibenz(a,h)anthracene	0.19	U	1.91	0.645	F	ug/L		34	38 - 130	48	50	
Dibenzofuran	0.96	U	9.53	5.75		ug/L		60	56 - 130	12	50	
1,2-Dichlorobenzene	0.96	U	9.53	4.50		ug/L		47	36 - 130	19	50	
1,3-Dichlorobenzene	0.96	U	9.53	4.25		ug/L		45	31 - 130	18	50	
1,4-Dichlorobenzene	0.41	J B	9.53	5.13		ug/L		50	34 - 130	36	50	
3,3'-Dichlorobenzidine	19	U	9.53	19	U F	ug/L		0	10 - 158	NC	50	
2,4-Dichlorophenol	0.96	U	9.53	3.93	F	ug/L		41	58 - 130	25	50	
Diethyl phthalate	0.96	U	9.53	5.80		ug/L		61	60 - 130	8	50	
2,4-Dimethylphenol	1.9	U	9.53	4.57		ug/L		48	41 - 130	34	50	
Dimethyl phthalate	0.96	U	9.53	5.80		ug/L		61	58 - 130	8	50	
Di-n-butyl phthalate	0.96	U	9.53	6.81		ug/L		72	59 - 130	14	50	
4,6-Dinitro-2-methylphenol	4.8	U	9.53	5.71		ug/L		60	10 - 182	18	50	
2,4-Dinitrophenol	9.6	U	9.53	7.70	J	ug/L		81	10 - 200	12	50	
2,4-Dinitrotoluene	0.96	U	9.53	5.48		ug/L		58	57 - 130	5	50	
2,6-Dinitrotoluene	0.96	U	9.53	5.23		ug/L		55	53 - 130	7	50	
Di-n-octyl phthalate	0.96	U	9.53	0.960	F	ug/L		10	19 - 130	56	50	
1,4-Dioxane	4.0		9.53	8.42		ug/L		46	10 - 130	45	50	
Fluoranthene	0.19	U	1.91	1.40		ug/L		73	46 - 136	10	50	
Fluorene	0.19	U	1.91	1.24		ug/L		65	48 - 130	8	50	
Hexachlorobenzene	0.96	U	9.53	5.83		ug/L		61	49 - 130	18	50	
Hexachlorobutadiene	0.96	U	9.53	4.92		ug/L		52	36 - 130	25	50	
Hexachlorocyclopentadiene	1.9	U	9.53	3.30		ug/L		35	16 - 130	24	50	
Hexachloroethane	0.96	U	9.53	6.16		ug/L		65	32 - 130	23	50	
Indeno[1,2,3-cd]pyrene	0.19	U	1.91	0.618		ug/L		32	12 - 130	38	50	
Isophorone	0.96	U	9.53	4.58		ug/L		48	45 - 130	24	50	
2-Methylnaphthalene	0.19	U	1.91	1.07	F	ug/L		56	51 - 130	94	50	
2-Methylphenol	1.9	U	9.53	0.782	J F	ug/L		8	49 - 130	NC	50	
3 & 4 Methylphenol	1.9	U	9.53	3.60	F	ug/L		38	55 - 130	17	50	
Naphthalene	0.19	U	1.91	1.13		ug/L		60	35 - 130	18	50	
2-Nitroaniline	0.96	U	9.53	4.56		ug/L		48	48 - 130	7	50	
3-Nitroaniline	4.8	U	9.53	0.192	J F	ug/L		2	18 - 147	137	50	
4-Nitroaniline	4.8	U	9.53	4.8	U F	ug/L		0	31 - 147	NC	50	
Nitrobenzene	0.96	U	9.53	5.02		ug/L		53	45 - 130	37	50	
2-Nitrophenol	0.96	U	9.53	6.53		ug/L		69	49 - 130	31	50	
4-Nitrophenol	4.8	U	9.53	4.46	J	ug/L		47	36 - 132	6	50	
N-Nitrosodimethylamine	0.96	U	9.53	4.34		ug/L		46	29 - 130	21	50	
N-Nitrosodi-n-propylamine	0.96	U	9.53	5.29		ug/L		56	42 - 130	22	50	
N-Nitrosodiphenylamine	0.96	U	9.53	6.16		ug/L		65	38 - 130	11	50	
2,2'-oxybis[1-chloropropane]	0.96	U	9.53	4.19		ug/L		44	39 - 130	21	50	
Pentachlorophenol	4.8	U	9.53	7.35		ug/L		77	12 - 156	15	50	
Phenanthrene	0.19	U	1.91	1.39		ug/L		73	45 - 134	15	50	
Phenol	0.96	U	9.53	3.33	F	ug/L		35	44 - 130	87	50	
Pyrene	0.19	U	1.91	1.30		ug/L		68	47 - 143	8	50	
Pyridine	4.8	U	9.53	3.59	J	ug/L		38	10 - 130	32	50	
1,2,4-Trichlorobenzene	0.96	U	9.53	4.83		ug/L		51	39 - 130	21	50	
2,4,5-Trichlorophenol	0.96	U	9.53	6.37		ug/L		67	61 - 130	11	50	

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 680-67898-2 MSD

Matrix: Water

Analysis Batch: 204675

Client Sample ID: MW-4

Prep Type: Total/NA

Prep Batch: 202119

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec.	RPD
	Result	Qualifier	Added	Result	Qualifier				
2,4,6-Trichlorophenol	0.96	U	9.53	5.97		ug/L		63	61 - 130
<b>Surrogate</b>									
2-Fluorobiphenyl	62			34 - 130					
2-Fluorophenol	57			25 - 130					
Nitrobenzene-d5	52			32 - 130					
Phenol-d5	38			27 - 130					
Terphenyl-d14	59			36 - 130					
2,4,6-Tribromophenol	63			30 - 130					

## Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Lab Sample ID: MB 680-202840/25

Matrix: Water

Analysis Batch: 202840

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethanol	1000	U	1000	330	ug/L			05/12/11 20:00	1
Isopropanol	1000	U	1000	300	ug/L			05/12/11 20:00	1
Methanol	1000	U	1000	830	ug/L			05/12/11 20:00	1

Lab Sample ID: LCS 680-202840/26

Matrix: Water

Analysis Batch: 202840

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	% Rec.	Limits	Dil Fac
	Added	Result	Qualifier					
Ethanol	20000	21500		ug/L		108	38 - 156	
Isopropanol	20000	20900		ug/L		105	70 - 130	
Methanol	20000	21000		ug/L		105	43 - 143	

Lab Sample ID: LCSD 680-202840/27

Matrix: Water

Analysis Batch: 202840

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	% Rec.	Limits	RPD	Limit
	Added	Result	Qualifier						
Ethanol	20000	22100		ug/L		111	38 - 156	3	50
Isopropanol	20000	21500		ug/L		108	70 - 130	3	50
Methanol	20000	21500		ug/L		108	43 - 143	3	50

Lab Sample ID: 680-67898-2 MS

Matrix: Water

Analysis Batch: 202840

Client Sample ID: MW-4

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	% Rec.	RPD
	Result	Qualifier	Added	Result	Qualifier				
Ethanol	1000	U	20000	23200		ug/L		116	38 - 156
Isopropanol	1000	U	20000	21100		ug/L		106	70 - 130
Methanol	5100		20000	21000		ug/L		79	43 - 143

# QC Sample Results

Client: Ashland Inc.

TestAmerica Job ID: 680-67898-1

Project/Site: Aqualon Hopewell - GW CA APR 2011

SDG: HAQ036

## Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

**Lab Sample ID: 680-67898-2 MSD**

**Client Sample ID: MW-4**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 202840**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec.	RPD	Limit	
	Result	Qualifier	Added	Result	Qualifier			% Rec			
Ethanol	1000	U	20000	23000		ug/L		115	38 - 156	1	50
Isopropanol	1000	U	20000	20900		ug/L		105	70 - 130	1	50
Methanol	5100		20000	20900		ug/L		79	43 - 143	0	50

**Lab Sample ID: MB 680-202859/6**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 202859**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethanol	1000	U	1000	330	ug/L			05/13/11 09:19	1
Isopropanol	1000	U	1000	300	ug/L			05/13/11 09:19	1
Methanol	1000	U	1000	830	ug/L			05/13/11 09:19	1

**Lab Sample ID: LCS 680-202859/4**

**Client Sample ID: Lab Control Sample**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 202859**

Analyte	Spike	LCSD	LCSD	Unit	D	% Rec.	Limits	Analyzed	Dil Fac
	Added	Result	Qualifier						
Ethanol	20000	21900		ug/L		109	38 - 156		
Isopropanol	20000	21300		ug/L		106	70 - 130		
Methanol	20000	21200		ug/L		106	43 - 143		

**Lab Sample ID: LCSD 680-202859/5**

**Client Sample ID: Lab Control Sample Dup**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 202859**

Analyte	Spike	LCSD	LCSD	Unit	D	% Rec.	Limits	RPD	Limit
	Added	Result	Qualifier						
Ethanol	20000	19900		ug/L		100	38 - 156	9	50
Isopropanol	20000	19300		ug/L		96	70 - 130	10	50
Methanol	20000	19400		ug/L		97	43 - 143	9	50

**Lab Sample ID: MB 680-203320/5**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 203320**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethanol	1000	U	1000	330	ug/L			05/17/11 16:58	1
Isopropanol	1000	U	1000	300	ug/L			05/17/11 16:58	1
Methanol	1000	U	1000	830	ug/L			05/17/11 16:58	1

**Lab Sample ID: LCS 680-203320/6**

**Client Sample ID: Lab Control Sample**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 203320**

Analyte	Spike	LCSD	LCSD	Unit	D	% Rec.	Limits	Analyzed	Dil Fac
	Added	Result	Qualifier						
Ethanol	20000	22700		ug/L		114	38 - 156		
Isopropanol	20000	22000		ug/L		110	70 - 130		
Methanol	20000	21800		ug/L		109	43 - 143		

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

**Lab Sample ID: LCSD 680-203320/7**

**Matrix: Water**

**Analysis Batch: 203320**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec.	Limits	RPD	RPD Limit
Ethanol	20000	22900		ug/L		115	38 - 156	1	50
Isopropanol	20000	22200		ug/L		111	70 - 130	1	50
Methanol	20000	21900		ug/L		110	43 - 143	1	50

**Lab Sample ID: MB 680-204206/8**

**Matrix: Water**

**Analysis Batch: 204206**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/26/11 14:46	1

**Lab Sample ID: LCS 680-204206/6**

**Matrix: Water**

**Analysis Batch: 204206**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec.	Limits
Allyl alcohol	20000	23600		ug/L		118	70 - 130

**Lab Sample ID: LCSD 680-204206/7**

**Matrix: Water**

**Analysis Batch: 204206**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec.	Limits	RPD	RPD Limit
Allyl alcohol	20000	19300		ug/L		97	70 - 130	20	50

**Lab Sample ID: MB 680-204805/24**

**Matrix: Water**

**Analysis Batch: 204805**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/11/11 19:55	1

**Lab Sample ID: LCS 680-204805/22**

**Matrix: Water**

**Analysis Batch: 204805**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec.	Limits
Allyl alcohol	20000	18500		ug/L		93	70 - 130

**Lab Sample ID: LCSD 680-204805/23**

**Matrix: Water**

**Analysis Batch: 204805**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec.	Limits	RPD	RPD Limit
Allyl alcohol	20000	18300		ug/L		91	70 - 130	1	50

# QC Sample Results

Client: Ashland Inc.

TestAmerica Job ID: 680-67898-1

Project/Site: Aqualon Hopewell - GW CA APR 2011

SDG: HAQ036

## Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

**Lab Sample ID: 680-67898-2 MS**

**Matrix: Water**

**Analysis Batch: 204805**

**Client Sample ID: MW-4**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit ug/L	D	% Rec. 86	% Rec. Limits	5
Allyl alcohol	1000	U	20000	17200					70 - 130	

**Lab Sample ID: 680-67898-2 MSD**

**Matrix: Water**

**Analysis Batch: 204805**

**Client Sample ID: MW-4**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit ug/L	D	% Rec. 81	% Rec. Limits	RPD 5	RPD Limit 50
Allyl alcohol	1000	U	20000	16300					70 - 130	5	50

**Lab Sample ID: MB 680-205003/6**

**Matrix: Water**

**Analysis Batch: 205003**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit ug/L	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			05/13/11 20:20	1

**Lab Sample ID: LCS 680-205003/4**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

**Matrix: Water**

**Analysis Batch: 205003**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit ug/L	D	% Rec. 83	% Rec. Limits
Allyl alcohol	20000	16500					70 - 130

**Lab Sample ID: LCSD 680-205003/5**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

**Matrix: Water**

**Analysis Batch: 205003**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit ug/L	D	% Rec. 67	% Rec. Limits	RPD 21	RPD Limit 50
Allyl alcohol	20000	13400	*	ug/L			70 - 130	21	50

**Lab Sample ID: MB 680-205181/3**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

**Matrix: Water**

**Analysis Batch: 205181**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit ug/L	D	Prepared	Analyzed	Dil Fac
Allyl alcohol	1000	U	1000	220	ug/L			06/07/11 16:07	1
Ethanol	1000	U	1000	330	ug/L			06/07/11 16:07	1
Isopropanol	1000	U	1000	300	ug/L			06/07/11 16:07	1
Methanol	1000	U	1000	830	ug/L			06/07/11 16:07	1

**Lab Sample ID: LCS 680-205181/4**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

**Matrix: Water**

**Analysis Batch: 205181**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit ug/L	D	% Rec. 81	% Rec. Limits
Ethanol	20000	16200		ug/L			38 - 156
Isopropanol	20000	15800		ug/L		79	70 - 130
Methanol	20000	16800		ug/L		84	43 - 143

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

Lab Sample ID: LCSD 680-205181/5

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 205181

Analyte	Spike Added	LCSD		Unit	D	% Rec	% Rec.		RPD Limit
		Result	Qualifier				Limits	RPD	
Ethanol	20000	16400		ug/L		82	38 - 156	1	50
Isopropanol	20000	16000		ug/L		80	70 - 130	1	50
Methanol	20000	17000		ug/L		85	43 - 143	1	50

## Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 680-201997/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 202609

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	100	U	100	50	ug/L		05/05/11 11:21	05/11/11 06:46	1
Antimony	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 06:46	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/05/11 11:21	05/11/11 06:46	1
Barium	5.0	U	5.0	1.4	ug/L		05/05/11 11:21	05/11/11 06:46	1
Beryllium	0.50	U	0.50	0.15	ug/L		05/05/11 11:21	05/11/11 06:46	1
Cadmium	0.50	U	0.50	0.13	ug/L		05/05/11 11:21	05/11/11 06:46	1
Calcium	500	U	500	170	ug/L		05/05/11 11:21	05/11/11 06:46	1
Chromium	5.0	U	5.0	2.5	ug/L		05/05/11 11:21	05/11/11 06:46	1
Cobalt	0.50	U	0.50	0.12	ug/L		05/05/11 11:21	05/11/11 06:46	1
Copper	5.0	U	5.0	1.1	ug/L		05/05/11 11:21	05/11/11 06:46	1
Iron	100	U	100	44	ug/L		05/05/11 11:21	05/11/11 06:46	1
Lead	1.5	U	1.5	0.50	ug/L		05/05/11 11:21	05/11/11 06:46	1
Magnesium	250	U	250	100	ug/L		05/05/11 11:21	05/11/11 06:46	1
Manganese	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 06:46	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 11:21	05/11/11 06:46	1
Nickel	5.0	U	5.0	2.0	ug/L		05/05/11 11:21	05/11/11 06:46	1
Potassium	356	J	1000	330	ug/L		05/05/11 11:21	05/11/11 06:46	1
Selenium	2.5	U	2.5	1.1	ug/L		05/05/11 11:21	05/11/11 06:46	1
Silver	1.0	U	1.0	0.18	ug/L		05/05/11 11:21	05/11/11 06:46	1
Sodium	500	U	500	170	ug/L		05/05/11 11:21	05/11/11 06:46	1
Thallium	1.0	U	1.0	0.25	ug/L		05/05/11 11:21	05/11/11 06:46	1
Vanadium	10	U	10	3.2	ug/L		05/05/11 11:21	05/11/11 06:46	1
Zinc	20	U	20	8.4	ug/L		05/05/11 11:21	05/11/11 06:46	1

Lab Sample ID: LCS 680-201997/2-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 202609

Analyte	Spike Added	LCS		Unit	D	% Rec	% Rec.	
		Result	Qualifier				Limits	RPD
Aluminum	5000	5210		ug/L		104	75 - 125	
Antimony	50.0	52.2		ug/L		104	75 - 125	
Arsenic	100	104		ug/L		104	75 - 125	
Barium	100	99.0		ug/L		99	75 - 125	
Beryllium	50.0	49.5		ug/L		99	75 - 125	
Cadmium	50.0	49.2		ug/L		98	75 - 125	
Calcium	5000	5260		ug/L		105	75 - 125	
Chromium	100	103		ug/L		103	75 - 125	
Cobalt	50.0	48.0		ug/L		96	75 - 125	
Copper	100	106		ug/L		106	75 - 125	

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 680-201997/2-A**

**Matrix: Water**

**Analysis Batch: 202609**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 201997**

Analyte	Spike Added	LCS		Unit	D	% Rec	% Rec.	Limits	5
		Result	Qualifier						
Iron	5000	5240		ug/L		105		75 - 125	6
Lead	50.0	50.9		ug/L		102		75 - 125	7
Magnesium	5000	5340		ug/L		107		75 - 125	8
Manganese	500	530		ug/L		106		75 - 125	9
Mercury	5.00	4.39		ug/L		88		75 - 125	10
Nickel	100	106		ug/L		106		75 - 125	11
Potassium	5000	5490		ug/L		110		75 - 125	12
Selenium	100	103		ug/L		103		75 - 125	13
Silver	50.0	48.9		ug/L		98		75 - 125	14
Sodium	5000	5220		ug/L		104		75 - 125	
Thallium	40.0	40.1		ug/L		100		75 - 125	
Vanadium	100	103		ug/L		103		75 - 125	
Zinc	100	102		ug/L		102		75 - 125	

**Lab Sample ID: 680-67898-2 MS**

**Matrix: Water**

**Analysis Batch: 202609**

**Client Sample ID: MW-4**

**Prep Type: Total/NA**

**Prep Batch: 201997**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	% Rec	% Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Sodium	470000		5000	478000	4	ug/L		89		75 - 125

**Lab Sample ID: 680-67898-2 MS**

**Matrix: Water**

**Analysis Batch: 202609**

**Client Sample ID: MW-4**

**Prep Type: Total/NA**

**Prep Batch: 201997**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	% Rec	% Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Aluminum	120		5000	5770		ug/L		113		75 - 125
Antimony	5.0	U	50.0	52.4		ug/L		105		75 - 125
Arsenic	3.8		100	109		ug/L		105		75 - 125
Barium	760		100	885	4	ug/L		121		75 - 125
Beryllium	0.50	U	50.0	50.1		ug/L		100		75 - 125
Cadmium	0.50	U	50.0	47.2		ug/L		94		75 - 125
Calcium	110000		5000	123000	4	ug/L		179		75 - 125
Chromium	4.1	J	100	112		ug/L		107		75 - 125
Cobalt	9.5		50.0	57.2		ug/L		95		75 - 125
Copper	3.7	J	100	106		ug/L		103		75 - 125
Iron	61000		5000	69800	4	ug/L		175		75 - 125
Lead	1.5	U	50.0	47.5		ug/L		95		75 - 125
Magnesium	36000		5000	42500	4	ug/L		129		75 - 125
Manganese	2300		500	2840	4	ug/L		103		75 - 125
Mercury	0.80	U	5.00	5.32		ug/L		106		75 - 125
Nickel	4.3	J	100	107		ug/L		103		75 - 125
Potassium	6300	B	5000	12400		ug/L		122		75 - 125
Selenium	2.5	U	100	99.3		ug/L		99		75 - 125
Silver	1.0	U	50.0	46.9		ug/L		94		75 - 125
Thallium	1.0	U	40.0	38.0		ug/L		95		75 - 125
Vanadium	4.3	J	100	112		ug/L		108		75 - 125
Zinc	9.4	J	100	109		ug/L		100		75 - 125

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: 680-67898-2 MSD**

**Matrix: Water**

**Analysis Batch: 202609**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec.	Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Sodium	470000		5000	472000	4	ug/L	-24	75 - 125	1	20	

**Lab Sample ID: 680-67898-2 MSD**

**Matrix: Water**

**Analysis Batch: 202609**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec.	Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Aluminum	120		5000	5500		ug/L	108	75 - 125	5	20	
Antimony	5.0	U	50.0	51.7		ug/L	103	75 - 125	1	20	
Arsenic	3.8		100	105		ug/L	102	75 - 125	3	20	
Barium	760		100	875	4	ug/L	111	75 - 125	1	20	
Beryllium	0.50	U	50.0	49.9		ug/L	100	75 - 125	0	20	
Cadmium	0.50	U	50.0	47.0		ug/L	94	75 - 125	0	20	
Calcium	110000		5000	119000	4	ug/L	96	75 - 125	3	20	
Chromium	4.1	J	100	109		ug/L	105	75 - 125	2	20	
Cobalt	9.5		50.0	56.4		ug/L	94	75 - 125	1	20	
Copper	3.7	J	100	104		ug/L	100	75 - 125	2	20	
Iron	61000		5000	67800	4	ug/L	136	75 - 125	3	20	
Lead	1.5	U	50.0	46.5		ug/L	93	75 - 125	2	20	
Magnesium	36000		5000	41200	4	ug/L	102	75 - 125	3	20	
Manganese	2300		500	2780	4	ug/L	91	75 - 125	2	20	
Mercury	0.80	U	5.00	5.22		ug/L	104	75 - 125	2	20	
Nickel	4.3	J	100	105		ug/L	100	75 - 125	3	20	
Potassium	6300	B	5000	12300		ug/L	119	75 - 125	1	20	
Selenium	2.5	U	100	97.8		ug/L	98	75 - 125	1	20	
Silver	1.0	U	50.0	46.3		ug/L	93	75 - 125	1	20	
Thallium	1.0	U	40.0	37.3		ug/L	93	75 - 125	2	20	
Vanadium	4.3	J	100	110		ug/L	105	75 - 125	2	20	
Zinc	9.4	J	100	107		ug/L	98	75 - 125	1	20	

**Lab Sample ID: MB 680-201999/1-A**

**Matrix: Water**

**Analysis Batch: 202609**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	50	U	50	23	ug/L		05/05/11 12:02	05/11/11 11:04	1
Antimony	5.0	U	5.0	2.3	ug/L		05/05/11 12:02	05/11/11 11:04	1
Arsenic	2.5	U	2.5	1.3	ug/L		05/05/11 12:02	05/11/11 11:04	1
Barium	5.0	U	5.0	1.3	ug/L		05/05/11 12:02	05/11/11 11:04	1
Beryllium	0.50	U	0.50	0.25	ug/L		05/05/11 12:02	05/11/11 11:04	1
Cadmium	0.50	U	0.50	0.095	ug/L		05/05/11 12:02	05/11/11 11:04	1
Calcium	250	U	250	130	ug/L		05/05/11 12:02	05/11/11 11:04	1
Chromium	5.0	U	5.0	2.5	ug/L		05/05/11 12:02	05/11/11 11:04	1
Cobalt	0.50	U	0.50	0.15	ug/L		05/05/11 12:02	05/11/11 11:04	1
Copper	5.0	U	5.0	1.1	ug/L		05/05/11 12:02	05/11/11 11:04	1
Iron	100	U	100	33	ug/L		05/05/11 12:02	05/11/11 11:04	1
Lead	1.5	U	1.5	0.20	ug/L		05/05/11 12:02	05/11/11 11:04	1
Magnesium	250	U	250	43	ug/L		05/05/11 12:02	05/11/11 11:04	1
Manganese	5.0	U	5.0	1.0	ug/L		05/05/11 12:02	05/11/11 11:04	1
Mercury	0.80	U	0.80	0.40	ug/L		05/05/11 12:02	05/11/11 11:04	1

**Client Sample ID: Method Blank**

**Prep Type: Total Recoverable**

**Prep Batch: 201999**

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 680-201999/1-A**

**Matrix: Water**

**Analysis Batch: 202609**

**Client Sample ID: Method Blank**

**Prep Type: Total Recoverable**

**Prep Batch: 201999**

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Nickel	5.0	U	5.0		5.0	2.0	ug/L		05/05/11 12:02	05/11/11 11:04	1
Potassium	500	U	500		500	170	ug/L		05/05/11 12:02	05/11/11 11:04	1
Selenium	2.5	U	2.5		2.5	1.0	ug/L		05/05/11 12:02	05/11/11 11:04	1
Silver	1.0	U	1.0		1.0	0.25	ug/L		05/05/11 12:02	05/11/11 11:04	1
Sodium	500	U	500		500	250	ug/L		05/05/11 12:02	05/11/11 11:04	1
Thallium	1.0	U	1.0		1.0	0.50	ug/L		05/05/11 12:02	05/11/11 11:04	1
Vanadium	10	U	10		10	3.8	ug/L		05/05/11 12:02	05/11/11 11:04	1
Zinc	20	U	20		20	8.3	ug/L		05/05/11 12:02	05/11/11 11:04	1

**Lab Sample ID: LCS 680-201999/2-A**

**Matrix: Water**

**Analysis Batch: 202609**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total Recoverable**

**Prep Batch: 201999**

Analyte	Spike Added	LCS	LCS	Result	Qualifier	Unit	D	% Rec	Limits
		Result	Qualifier						
Aluminum	5000	5260				ug/L		105	75 - 125
Antimony	50.0	52.2				ug/L		104	75 - 125
Arsenic	100	107				ug/L		107	75 - 125
Barium	100	98.4				ug/L		98	75 - 125
Beryllium	50.0	50.7				ug/L		101	75 - 125
Cadmium	50.0	49.7				ug/L		99	75 - 125
Calcium	5000	5320				ug/L		106	75 - 125
Chromium	100	105				ug/L		105	75 - 125
Cobalt	50.0	48.4				ug/L		97	75 - 125
Copper	100	107				ug/L		107	75 - 125
Iron	5000	5320				ug/L		106	75 - 125
Lead	50.0	49.5				ug/L		99	75 - 125
Magnesium	5000	5360				ug/L		107	75 - 125
Manganese	500	534				ug/L		107	75 - 125
Mercury	5.00	4.41				ug/L		88	75 - 125
Nickel	100	107				ug/L		107	75 - 125
Potassium	5000	5440				ug/L		109	75 - 125
Selenium	100	107				ug/L		107	75 - 125
Silver	50.0	48.7				ug/L		97	75 - 125
Sodium	5000	5300				ug/L		106	75 - 125
Thallium	40.0	39.2				ug/L		98	75 - 125
Vanadium	100	104				ug/L		104	75 - 125
Zinc	100	106				ug/L		106	75 - 125

**Lab Sample ID: 680-67898-U-2-A MS**

**Matrix: Water**

**Analysis Batch: 202609**

**Client Sample ID: 680-67898-U-2-A MS**

**Prep Type: Dissolved**

**Prep Batch: 201999**

Analyte	Sample	Sample	Spike	Result	Qualifier	Unit	D	% Rec	Limits
	Result	Qualifier	Added						
Aluminum	50		5000	5100		ug/L		102	75 - 125
Antimony	5.0		50.0	53.0		ug/L		106	75 - 125
Arsenic	3.9		100	110		ug/L		107	75 - 125
Barium	780		100	876	4	ug/L		93	75 - 125
Beryllium	0.50		50.0	52.0		ug/L		104	75 - 125
Cadmium	0.50		50.0	47.9		ug/L		96	75 - 125
Calcium	120000		5000	121000	4	ug/L		40	75 - 125

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: 680-67898-U-2-A MS**

**Matrix: Water**

**Analysis Batch: 202609**

**Client Sample ID: 680-67898-U-2-A MS**

**Prep Type: Dissolved**

**Prep Batch: 201999**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	% Rec	% Rec.	Limits	
	Result	Qualifier	Added	Result	Qualifier				105		
Chromium	3.2		100	108		ug/L			75 - 125		
Cobalt	9.7		50.0	56.7		ug/L			94	75 - 125	
Copper	5.0		100	102		ug/L			102	75 - 125	
Iron	64000		5000	67800	4	ug/L			74	75 - 125	
Lead	0.54		50.0	47.0		ug/L			93	75 - 125	
Magnesium	38000		5000	42100	4	ug/L			87	75 - 125	
Manganese	2400		500	2870	4	ug/L			95	75 - 125	
Mercury	0.80		5.00	5.18		ug/L			104	75 - 125	
Nickel	4.1		100	105		ug/L			101	75 - 125	
Potassium	6600		5000	12200		ug/L			112	75 - 125	
Selenium	2.5		100	103		ug/L			103	75 - 125	
Silver	1.0		50.0	47.0		ug/L			94	75 - 125	
Thallium	1.0		40.0	37.6		ug/L			94	75 - 125	
Vanadium	4.1		100	110		ug/L			106	75 - 125	
Zinc	8.3		100	112		ug/L			112	75 - 125	

**Lab Sample ID: 680-67898-U-2-B MSD**

**Matrix: Water**

**Analysis Batch: 202609**

**Client Sample ID: 680-67898-U-2-B MSD**

**Prep Type: Dissolved**

**Prep Batch: 201999**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				102		
Aluminum	50		5000	5120		ug/L			102	75 - 125	0
Antimony	5.0		50.0	53.2		ug/L			106	75 - 125	0
Arsenic	3.9		100	110		ug/L			106	75 - 125	0
Barium	780		100	900	4	ug/L			117	75 - 125	3
Beryllium	0.50		50.0	51.6		ug/L			103	75 - 125	1
Cadmium	0.50		50.0	48.2		ug/L			96	75 - 125	1
Calcium	120000		5000	123000	4	ug/L			76	75 - 125	1
Chromium	3.2		100	108		ug/L			105	75 - 125	0
Cobalt	9.7		50.0	57.4		ug/L			95	75 - 125	1
Copper	5.0		100	103		ug/L			103	75 - 125	1
Iron	64000		5000	68400	4	ug/L			88	75 - 125	1
Lead	0.54		50.0	47.9		ug/L			95	75 - 125	2
Magnesium	38000		5000	42400	4	ug/L			93	75 - 125	1
Manganese	2400		500	2940	4	ug/L			108	75 - 125	2
Mercury	0.80		5.00	5.36		ug/L			107	75 - 125	3
Nickel	4.1		100	106		ug/L			102	75 - 125	1
Potassium	6600		5000	12400		ug/L			118	75 - 125	2
Selenium	2.5		100	104		ug/L			104	75 - 125	1
Silver	1.0		50.0	47.7		ug/L			95	75 - 125	1
Thallium	1.0		40.0	38.3		ug/L			96	75 - 125	2
Vanadium	4.1		100	111		ug/L			107	75 - 125	0
Zinc	8.3		100	112		ug/L			112	75 - 125	1

# QC Sample Results

Client: Ashland Inc.  
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1  
SDG: HAQ036

## Method: 325.2 - Chloride

**Lab Sample ID:** MB 680-203698/4

**Matrix:** Water

**Analysis Batch:** 203698

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	1000	U	1000	180	ug/L			05/21/11 12:21	1

**Lab Sample ID:** LCS 680-203698/2

**Matrix:** Water

**Analysis Batch:** 203698

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	% Rec	Limits
	Added							
Chloride		50000	51600		ug/L		103	85 - 115

**Lab Sample ID:** 680-67898-2 MS

**Matrix:** Water

**Analysis Batch:** 203698

Analyte	Sample		Spike Added	MS		Unit	D	% Rec	Limits
	Result	Qualifier		Result	Qualifier				
Chloride	540000		50000	550000	4	ug/L		22	85 - 115

**Lab Sample ID:** 680-67898-2 MSD

**Matrix:** Water

**Analysis Batch:** 203698

Analyte	Sample		Spike Added	MSD		Unit	D	% Rec	RPD	RPD Limit
	Result	Qualifier		Result	Qualifier					
Chloride	540000		50000	562000	4	ug/L		46	85 - 115	2 30

**Lab Sample ID:** 680-67898-10 DU

**Matrix:** Water

**Analysis Batch:** 203698

Analyte	Sample		DU Result	DU Qualifier	Unit	D	RPD	Limit
	Result	Qualifier						
Chloride	1000000		1010000		ug/L		0.5	30

## Method: 351.2 - Nitrogen, Total Kjeldahl

**Lab Sample ID:** MB 680-203165/1-A

**Matrix:** Water

**Analysis Batch:** 203380

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrogen, Kjeldahl	200	U	200	150	ug/L		05/17/11 10:30	05/18/11 15:45	1

**Lab Sample ID:** LCS 680-203165/2-A

**Matrix:** Water

**Analysis Batch:** 203380

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	% Rec	Limits
	Added							
Nitrogen, Kjeldahl		1000	906		ug/L		91	75 - 125

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

**Lab Sample ID:** 680-67898-2 MS

**Matrix:** Water

**Analysis Batch:** 203380

**Client Sample ID:** MW-4

**Prep Type:** Total/NA

**Prep Batch:** 203165

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	% Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier				
Nitrogen, Kjeldahl	7500		1000	6590	4	ug/L	-88	75 - 125	

**Lab Sample ID:** 680-67898-2 MSD

**Matrix:** Water

**Analysis Batch:** 203380

**Client Sample ID:** MW-4

**Prep Type:** Total/NA

**Prep Batch:** 203165

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec.	RPD
	Result	Qualifier	Added	Result	Qualifier				
Nitrogen, Kjeldahl	7500		1000	7740	4	ug/L	27	75 - 125	16

**Lab Sample ID:** MB 680-203166/1-A

**Matrix:** Water

**Analysis Batch:** 203380

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Prep Batch:** 203166

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrogen, Kjeldahl	200	U	200	150	ug/L		05/17/11 11:00	05/18/11 15:27	1

**Lab Sample ID:** LCS 680-203166/2-A

**Matrix:** Water

**Analysis Batch:** 203380

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Prep Batch:** 203166

Analyte	Spike	LCS	LCS	Unit	D	% Rec.	Limits
	Added	Result	Qualifier				
Nitrogen, Kjeldahl	1000	868		ug/L	87	75 - 125	

**Lab Sample ID:** 680-67948-1 DU

**Matrix:** Water

**Analysis Batch:** 203380

**Client Sample ID:** MW-1

**Prep Type:** Total/NA

**Prep Batch:** 203166

Analyte	Sample	Sample	DU	DU	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrogen, Kjeldahl	280		300		ug/L				9

## Method: 353.2 - Nitrogen, Nitrate-Nitrite

**Lab Sample ID:** MB 680-201554/14

**Client Sample ID:** Method Blank

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 201554

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrate as N	50	U	50	10	ug/L		04/30/11 22:15		1
Nitrate Nitrite as N	50	U	50	10	ug/L		04/30/11 22:15		1
Nitrite as N	50	U	50	10	ug/L		04/30/11 22:15		1

**Lab Sample ID:** LCS 680-201554/15

**Client Sample ID:** Lab Control Sample

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 201554

Analyte	Spike	LCS	LCS	Unit	D	% Rec.	Limits
	Added	Result	Qualifier				
Nitrate as N	500	479		ug/L	96	96	
Nitrate Nitrite as N	1000	960		ug/L	96	90 - 110	
Nitrite as N	500	481		ug/L	96	90 - 110	

TestAmerica Savannah

# QC Sample Results

Client: Ashland Inc.

TestAmerica Job ID: 680-67898-1

Project/Site: Aqualon Hopewell - GW CA APR 2011

SDG: HAQ036

## Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

**Lab Sample ID: 680-67898-2 MS**

**Matrix: Water**

**Analysis Batch: 201554**

**Client Sample ID: MW-4**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	% Rec	% Rec.	Limits	
	Result	Qualifier	Added	Result	Qualifier				Limits		
Nitrate as N	50	U	500	496		ug/L		99			
Nitrate Nitrite as N	17		1000	1010		ug/L		99	90 - 110		
Nitrite as N	12	J	500	515		ug/L		101	90 - 110		

**Lab Sample ID: 680-67898-2 MSD**

**Matrix: Water**

**Analysis Batch: 201554**

**Client Sample ID: MW-4**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Nitrate as N	50	U	500	484		ug/L		97		2	
Nitrate Nitrite as N	17		1000	998		ug/L		98	90 - 110	1	10
Nitrite as N	12	J	500	514		ug/L		100	90 - 110	0	10

**Lab Sample ID: MB 680-201794/14**

**Matrix: Water**

**Analysis Batch: 201794**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrate as N	50	U	50	10	ug/L			05/03/11 18:28	1
Nitrate Nitrite as N	50	U	50	10	ug/L			05/03/11 18:28	1
Nitrite as N	50	U	50	10	ug/L			05/03/11 18:28	1

**Lab Sample ID: LCS 680-201794/15**

**Matrix: Water**

**Analysis Batch: 201794**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike	Result	LCS	LCS	Unit	D	% Rec	Limits
	Added							
Nitrate as N	500		479		ug/L		96	
Nitrate Nitrite as N	1000		966		ug/L		97	90 - 110
Nitrite as N	500		487		ug/L		97	90 - 110

**Lab Sample ID: 680-67948-1 MS**

**Matrix: Water**

**Analysis Batch: 201794**

**Client Sample ID: MW-1**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	% Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Nitrate as N	19	J	500	523		ug/L		101	
Nitrate Nitrite as N	19		1000	1040		ug/L		103	90 - 110
Nitrite as N	50	U	500	522		ug/L		104	90 - 110

**Lab Sample ID: 680-67948-1 MSD**

**Matrix: Water**

**Analysis Batch: 201794**

**Client Sample ID: MW-1**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Nitrate as N	19	J	500	517		ug/L		100		1	
Nitrate Nitrite as N	19		1000	1040		ug/L		102	90 - 110	0	10
Nitrite as N	50	U	500	527		ug/L		105	90 - 110	1	10

# QC Sample Results

Client: Ashland Inc.  
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1  
SDG: HAQ036

## Method: 375.4 - Sulfate

**Lab Sample ID: MB 680-203777/1**

**Matrix: Water**

**Analysis Batch: 203777**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	5000	U	5000	2500	ug/L			05/23/11 11:17	1

**Lab Sample ID: LCS 680-203777/2**

**Matrix: Water**

**Analysis Batch: 203777**

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec.	Limits
Sulfate		20000	18900		ug/L		95	75 - 125

**Lab Sample ID: 680-67898-2 MS**

**Matrix: Water**

**Analysis Batch: 203777**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec.	Limits
Sulfate	50000	U	200000	190000		ug/L		95	75 - 125

**Lab Sample ID: 680-67898-2 MSD**

**Matrix: Water**

**Analysis Batch: 203777**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec.	RPD	Limit	
Sulfate	50000	U	200000	189000		ug/L		94	75 - 125	1	30

## Method: 9060 - Organic Carbon, Total (TOC)

**Lab Sample ID: MB 680-203407/15**

**Matrix: Water**

**Analysis Batch: 203407**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1000	U	1000	500	ug/L			05/17/11 16:19	1

**Lab Sample ID: LCS 680-203407/19**

**Matrix: Water**

**Analysis Batch: 203407**

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec.	Limits
Total Organic Carbon		20000	18000		ug/L		90	80 - 120

**Lab Sample ID: 680-67898-2 MS**

**Matrix: Water**

**Analysis Batch: 203407**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec.	Limits
Total Organic Carbon	32000		20000	50500		ug/L		94	80 - 120

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

# QC Sample Results

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Method: 9060 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 680-67898-2 MSD

Matrix: Water

Analysis Batch: 203407

Client Sample ID: MW-4

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec.	Limits	RPD	RPD Limit
Total Organic Carbon	32000		20000	49600		ug/L	90	80 - 120	2	25	

1

2

3

4

5

6

7

8

9

10

11

12

13

14

# QC Association Summary

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## GC/MS VOA

### Analysis Batch: 201948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	8260B	
680-67898-11	TRIP BLANK 4	Total/NA	Water	8260B	
680-67898-8	FIELD BLANK	Total/NA	Water	8260B	
LCS 680-201948/10	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-201948/11	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-201948/13	Method Blank	Total/NA	Water	8260B	

### Analysis Batch: 202151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-202151/6	Lab Control Sample	Total/NA	Water	8260B	
MB 680-202151/7	Method Blank	Total/NA	Water	8260B	
LCSD 680-202151/8	Lab Control Sample Dup	Total/NA	Water	8260B	
680-67898-1	VFSP-MW-1	Total/NA	Water	8260B	
680-67898-2	MW-4	Total/NA	Water	8260B	
680-67898-4	MW-4U	Total/NA	Water	8260B	
680-67898-5	MW-9	Total/NA	Water	8260B	
680-67898-6	MW-5	Total/NA	Water	8260B	
680-67898-7	MW-5U	Total/NA	Water	8260B	
680-67898-10	MW-2	Total/NA	Water	8260B	
680-67898-9	FIELD DUPLICATE	Total/NA	Water	8260B	

### Analysis Batch: 202173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67898-2 - DL	MW-4	Total/NA	Water	8260B	
680-67898-4 - DL	MW-4U	Total/NA	Water	8260B	
680-67898-5 - DL	MW-9	Total/NA	Water	8260B	
680-67898-6 - DL	MW-5	Total/NA	Water	8260B	
680-67898-7 - DL	MW-5U	Total/NA	Water	8260B	
680-67898-9 - DL	FIELD DUPLICATE	Total/NA	Water	8260B	
680-67898-10 - DL	MW-2	Total/NA	Water	8260B	
LCS 680-202173/12	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-202173/13	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-202173/15	Method Blank	Total/NA	Water	8260B	
680-67898-2 MS	MW-4	Total/NA	Water	8260B	
680-67898-2 MSD	MW-4	Total/NA	Water	8260B	

### Analysis Batch: 202245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67948-3	Trip Blank	Total/NA	Water	8260B	
680-67948-1	MW-1	Total/NA	Water	8260B	
680-67948-2	NAT-4	Total/NA	Water	8260B	
LCS 680-202245/15	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-202245/16	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-202245/18	Method Blank	Total/NA	Water	8260B	

### Analysis Batch: 202323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-202323/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-202323/6	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-202323/8	Method Blank	Total/NA	Water	8260B	
680-67948-1 - DL	MW-1	Total/NA	Water	8260B	
680-67948-2 - DL	NAT-4	Total/NA	Water	8260B	

TestAmerica Savannah

# QC Association Summary

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## GC/MS Semi VOA

### Prep Batch: 202119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67898-2	MW-4	Total/NA	Water	3520C	
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	3520C	
680-67898-4	MW-4U	Total/NA	Water	3520C	
680-67898-5	MW-9	Total/NA	Water	3520C	
680-67898-6	MW-5	Total/NA	Water	3520C	
680-67898-7	MW-5U	Total/NA	Water	3520C	
680-67898-8	FIELD BLANK	Total/NA	Water	3520C	
680-67898-9	FIELD DUPLICATE	Total/NA	Water	3520C	
680-67898-10	MW-2	Total/NA	Water	3520C	
680-67948-1	MW-1	Total/NA	Water	3520C	
MB 680-202119/11-A	Method Blank	Total/NA	Water	3520C	
LCS 680-202119/12-A	Lab Control Sample	Total/NA	Water	3520C	
680-67898-2 MS	MW-4	Total/NA	Water	3520C	
680-67898-2 MSD	MW-4	Total/NA	Water	3520C	
LCS 680-202119/15-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-202119/16-A	Lab Control Sample Dup	Total/NA	Water	3520C	

### Analysis Batch: 204675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-202119/15-A	Lab Control Sample	Total/NA	Water	8270C LL	202119
LCSD 680-202119/16-A	Lab Control Sample Dup	Total/NA	Water	8270C LL	202119
680-67898-2	MW-4	Total/NA	Water	8270C LL	202119
LCS 680-202119/12-A	Lab Control Sample	Total/NA	Water	8270C LL	202119
680-67898-4	MW-4U	Total/NA	Water	8270C LL	202119
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	8270C LL	202119
680-67898-5	MW-9	Total/NA	Water	8270C LL	202119
680-67898-6	MW-5	Total/NA	Water	8270C LL	202119
680-67898-7	MW-5U	Total/NA	Water	8270C LL	202119
680-67898-8	FIELD BLANK	Total/NA	Water	8270C LL	202119
680-67898-9	FIELD DUPLICATE	Total/NA	Water	8270C LL	202119
680-67898-10	MW-2	Total/NA	Water	8270C LL	202119
680-67948-1	MW-1	Total/NA	Water	8270C LL	202119
MB 680-202119/11-A	Method Blank	Total/NA	Water	8270C LL	202119
680-67898-2 MS	MW-4	Total/NA	Water	8270C LL	202119
680-67898-2 MSD	MW-4	Total/NA	Water	8270C LL	202119

## GC VOA

### Analysis Batch: 202840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67898-1	VFSP-MW-1	Total/NA	Water	8015B	
680-67898-2	MW-4	Total/NA	Water	8015B	
680-67898-2 MS	MW-4	Total/NA	Water	8015B	
680-67898-2 MSD	MW-4	Total/NA	Water	8015B	
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	8015B	
680-67898-4	MW-4U	Total/NA	Water	8015B	
680-67898-5	MW-9	Total/NA	Water	8015B	
680-67898-6	MW-5	Total/NA	Water	8015B	
680-67898-7	MW-5U	Total/NA	Water	8015B	
680-67898-8	FIELD BLANK	Total/NA	Water	8015B	
680-67898-9	FIELD DUPLICATE	Total/NA	Water	8015B	
680-67898-10	MW-2	Total/NA	Water	8015B	

TestAmerica Savannah

# QC Association Summary

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## GC VOA (Continued)

### Analysis Batch: 202840 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-202840/25	Method Blank	Total/NA	Water	8015B	
LCS 680-202840/26	Lab Control Sample	Total/NA	Water	8015B	
LCSD 680-202840/27	Lab Control Sample Dup	Total/NA	Water	8015B	

### Analysis Batch: 202859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-202859/4	Lab Control Sample	Total/NA	Water	8015B	
LCSD 680-202859/5	Lab Control Sample Dup	Total/NA	Water	8015B	
MB 680-202859/6	Method Blank	Total/NA	Water	8015B	
680-67898-7	MW-5U	Total/NA	Water	8015B	
680-67898-10	MW-2	Total/NA	Water	8015B	

### Analysis Batch: 203320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67948-1	MW-1	Total/NA	Water	8015B	
680-67948-2	NAT-4	Total/NA	Water	8015B	
MB 680-203320/5	Method Blank	Total/NA	Water	8015B	
LCS 680-203320/6	Lab Control Sample	Total/NA	Water	8015B	
LCSD 680-203320/7	Lab Control Sample Dup	Total/NA	Water	8015B	

### Analysis Batch: 204206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67948-1	MW-1	Total/NA	Water	8015B	
680-67948-2	NAT-4	Total/NA	Water	8015B	
LCS 680-204206/6	Lab Control Sample	Total/NA	Water	8015B	
LCSD 680-204206/7	Lab Control Sample Dup	Total/NA	Water	8015B	
MB 680-204206/8	Method Blank	Total/NA	Water	8015B	

### Analysis Batch: 204805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67898-1	VFSP-MW-1	Total/NA	Water	8015B	
680-67898-2	MW-4	Total/NA	Water	8015B	
680-67898-2 MS	MW-4	Total/NA	Water	8015B	
680-67898-2 MSD	MW-4	Total/NA	Water	8015B	
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	8015B	
680-67898-4	MW-4U	Total/NA	Water	8015B	
680-67898-5	MW-9	Total/NA	Water	8015B	
680-67898-6	MW-5	Total/NA	Water	8015B	
680-67898-7	MW-5U	Total/NA	Water	8015B	
680-67898-8	FIELD BLANK	Total/NA	Water	8015B	
680-67898-9	FIELD DUPLICATE	Total/NA	Water	8015B	
LCS 680-204805/22	Lab Control Sample	Total/NA	Water	8015B	
LCSD 680-204805/23	Lab Control Sample Dup	Total/NA	Water	8015B	
MB 680-204805/24	Method Blank	Total/NA	Water	8015B	

### Analysis Batch: 205003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67898-10	MW-2	Total/NA	Water	8015B	
680-67898-11	TRIP BLANK 4	Total/NA	Water	8015B	
LCS 680-205003/4	Lab Control Sample	Total/NA	Water	8015B	
LCSD 680-205003/5	Lab Control Sample Dup	Total/NA	Water	8015B	
MB 680-205003/6	Method Blank	Total/NA	Water	8015B	

# QC Association Summary

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## GC VOA (Continued)

### Analysis Batch: 205181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67898-11	TRIP BLANK 4	Total/NA	Water	8015B	
MB 680-205181/3	Method Blank	Total/NA	Water	8015B	
LCS 680-205181/4	Lab Control Sample	Total/NA	Water	8015B	
LCSD 680-205181/5	Lab Control Sample Dup	Total/NA	Water	8015B	

## Metals

### Prep Batch: 201997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-201997/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-201997/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-67898-1	VFSP-MW-1	Total/NA	Water	3010A	
680-67898-2	MW-4	Total/NA	Water	3010A	
680-67898-2	MW-4	Total/NA	Water	3010A	
680-67898-2 MS	MW-4	Total/NA	Water	3010A	
680-67898-2 MS	MW-4	Total/NA	Water	3010A	
680-67898-2 MSD	MW-4	Total/NA	Water	3010A	
680-67898-2 MSD	MW-4	Total/NA	Water	3010A	
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	3010A	
680-67898-4	MW-4U	Total/NA	Water	3010A	
680-67898-4	MW-4U	Total/NA	Water	3010A	
680-67898-5	MW-9	Total/NA	Water	3010A	
680-67898-6	MW-5	Total/NA	Water	3010A	
680-67898-6	MW-5	Total/NA	Water	3010A	
680-67898-7	MW-5U	Total/NA	Water	3010A	
680-67898-7	MW-5U	Total/NA	Water	3010A	
680-67898-8	FIELD BLANK	Total/NA	Water	3010A	
680-67898-9	FIELD DUPLICATE	Total/NA	Water	3010A	
680-67898-9	FIELD DUPLICATE	Total/NA	Water	3010A	
680-67898-10	MW-2	Total/NA	Water	3010A	
680-67898-10	MW-2	Total/NA	Water	3010A	
680-67948-1	MW-1	Total/NA	Water	3010A	
680-67948-2	NAT-4	Total/NA	Water	3010A	

### Prep Batch: 201999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-201999/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-201999/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-67898-U-2-A MS	680-67898-U-2-A MS	Dissolved	Water	3005A	
680-67898-U-2-B MSD	680-67898-U-2-B MSD	Dissolved	Water	3005A	
680-67948-2	NAT-4	Dissolved	Water	3005A	

### Analysis Batch: 202609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-201997/1-A	Method Blank	Total/NA	Water	6020	201997
LCS 680-201997/2-A	Lab Control Sample	Total/NA	Water	6020	201997
680-67898-1	VFSP-MW-1	Total/NA	Water	6020	201997
680-67898-2	MW-4	Total/NA	Water	6020	201997
680-67898-2 MS	MW-4	Total/NA	Water	6020	201997
680-67898-2 MSD	MW-4	Total/NA	Water	6020	201997
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	6020	201997
680-67898-4	MW-4U	Total/NA	Water	6020	201997

# QC Association Summary

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## Metals (Continued)

### Analysis Batch: 202609 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67898-5	MW-9	Total/NA	Water	6020	201997
680-67898-6	MW-5	Total/NA	Water	6020	201997
680-67898-7	MW-5U	Total/NA	Water	6020	201997
680-67898-8	FIELD BLANK	Total/NA	Water	6020	201997
680-67898-9	FIELD DUPLICATE	Total/NA	Water	6020	201997
680-67898-10	MW-2	Total/NA	Water	6020	201997
680-67948-1	MW-1	Total/NA	Water	6020	201997
680-67948-2	NAT-4	Total/NA	Water	6020	201997
MB 680-201999/1-A	Method Blank	Total Recoverable	Water	6020	201999
LCS 680-201999/2-A	Lab Control Sample	Total Recoverable	Water	6020	201999
680-67948-2	NAT-4	Dissolved	Water	6020	201999
680-67898-U-2-A MS	680-67898-U-2-A MS	Dissolved	Water	6020	201999
680-67898-U-2-B MSD	680-67898-U-2-B MSD	Dissolved	Water	6020	201999
680-67898-2	MW-4	Total/NA	Water	6020	201997
680-67898-2 MS	MW-4	Total/NA	Water	6020	201997
680-67898-2 MSD	MW-4	Total/NA	Water	6020	201997
680-67898-4	MW-4U	Total/NA	Water	6020	201997
680-67898-6	MW-5	Total/NA	Water	6020	201997
680-67898-7	MW-5U	Total/NA	Water	6020	201997
680-67898-9	FIELD DUPLICATE	Total/NA	Water	6020	201997
680-67898-10	MW-2	Total/NA	Water	6020	201997

## General Chemistry

### Analysis Batch: 201554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-201554/14	Method Blank	Total/NA	Water	353.2	
LCS 680-201554/15	Lab Control Sample	Total/NA	Water	353.2	
680-67898-2	MW-4	Total/NA	Water	353.2	
680-67898-2 MS	MW-4	Total/NA	Water	353.2	
680-67898-2 MSD	MW-4	Total/NA	Water	353.2	
680-67898-1	VFSP-MW-1	Total/NA	Water	353.2	
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	353.2	
680-67898-4	MW-4U	Total/NA	Water	353.2	
680-67898-5	MW-9	Total/NA	Water	353.2	
680-67898-6	MW-5	Total/NA	Water	353.2	
680-67898-7	MW-5U	Total/NA	Water	353.2	
680-67898-8	FIELD BLANK	Total/NA	Water	353.2	
680-67898-9	FIELD DUPLICATE	Total/NA	Water	353.2	
680-67898-10	MW-2	Total/NA	Water	353.2	

### Analysis Batch: 201794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-201794/14	Method Blank	Total/NA	Water	353.2	
LCS 680-201794/15	Lab Control Sample	Total/NA	Water	353.2	
680-67948-1	MW-1	Total/NA	Water	353.2	
680-67948-1 MS	MW-1	Total/NA	Water	353.2	
680-67948-1 MSD	MW-1	Total/NA	Water	353.2	
680-67948-2	NAT-4	Total/NA	Water	353.2	

# QC Association Summary

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## General Chemistry (Continued)

### Prep Batch: 203165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-203165/1-A	Method Blank	Total/NA	Water	351.2	1
LCS 680-203165/2-A	Lab Control Sample	Total/NA	Water	351.2	2
680-67898-1	VFSP-MW-1	Total/NA	Water	351.2	3
680-67898-2	MW-4	Total/NA	Water	351.2	4
680-67898-2 MS	MW-4	Total/NA	Water	351.2	5
680-67898-2 MSD	MW-4	Total/NA	Water	351.2	6
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	351.2	7
680-67898-4	MW-4U	Total/NA	Water	351.2	8
680-67898-5	MW-9	Total/NA	Water	351.2	9
680-67898-6	MW-5	Total/NA	Water	351.2	10
680-67898-7	MW-5U	Total/NA	Water	351.2	11
680-67898-8	FIELD BLANK	Total/NA	Water	351.2	12
680-67898-9	FIELD DUPLICATE	Total/NA	Water	351.2	13

### Prep Batch: 203166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-203166/1-A	Method Blank	Total/NA	Water	351.2	12
LCS 680-203166/2-A	Lab Control Sample	Total/NA	Water	351.2	13
680-67898-10	MW-2	Total/NA	Water	351.2	14
680-67948-1	MW-1	Total/NA	Water	351.2	11
680-67948-1 DU	MW-1	Total/NA	Water	351.2	12
680-67948-2	NAT-4	Total/NA	Water	351.2	13

### Analysis Batch: 203380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67898-5	MW-9	Total/NA	Water	351.2	203165
680-67898-6	MW-5	Total/NA	Water	351.2	203165
680-67898-7	MW-5U	Total/NA	Water	351.2	203165
680-67898-8	FIELD BLANK	Total/NA	Water	351.2	203165
680-67898-9	FIELD DUPLICATE	Total/NA	Water	351.2	203165
MB 680-203166/1-A	Method Blank	Total/NA	Water	351.2	203166
680-67898-10	MW-2	Total/NA	Water	351.2	203166
680-67948-1	MW-1	Total/NA	Water	351.2	203166
680-67948-1 DU	MW-1	Total/NA	Water	351.2	203166
MB 680-203165/1-A	Method Blank	Total/NA	Water	351.2	203165
LCS 680-203165/2-A	Lab Control Sample	Total/NA	Water	351.2	203165
680-67898-1	VFSP-MW-1	Total/NA	Water	351.2	203165
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	351.2	203165
LCS 680-203166/2-A	Lab Control Sample	Total/NA	Water	351.2	203166
680-67898-2 MS	MW-4	Total/NA	Water	351.2	203165
680-67898-2 MSD	MW-4	Total/NA	Water	351.2	203165
680-67898-4	MW-4U	Total/NA	Water	351.2	203165
680-67898-2	MW-4	Total/NA	Water	351.2	203165
680-67948-2	NAT-4	Total/NA	Water	351.2	203166

### Analysis Batch: 203407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-203407/15	Method Blank	Total/NA	Water	9060	1
LCS 680-203407/19	Lab Control Sample	Total/NA	Water	9060	2
680-67898-1	VFSP-MW-1	Total/NA	Water	9060	3
680-67898-2	MW-4	Total/NA	Water	9060	4
680-67898-2 MS	MW-4	Total/NA	Water	9060	5

TestAmerica Savannah

# QC Association Summary

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

## General Chemistry (Continued)

### Analysis Batch: 203407 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-67898-2 MSD	MW-4	Total/NA	Water	9060	
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	9060	
680-67898-4	MW-4U	Total/NA	Water	9060	
680-67898-5	MW-9	Total/NA	Water	9060	
680-67898-6	MW-5	Total/NA	Water	9060	
680-67898-7	MW-5U	Total/NA	Water	9060	
680-67898-8	FIELD BLANK	Total/NA	Water	9060	
680-67898-9	FIELD DUPLICATE	Total/NA	Water	9060	
680-67898-10	MW-2	Total/NA	Water	9060	
680-67948-1	MW-1	Total/NA	Water	9060	
680-67948-2	NAT-4	Total/NA	Water	9060	

### Analysis Batch: 203698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-203698/2	Lab Control Sample	Total/NA	Water	325.2	
680-67898-1	VFSP-MW-1	Total/NA	Water	325.2	
MB 680-203698/4	Method Blank	Total/NA	Water	325.2	
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	325.2	
680-67898-2	MW-4	Total/NA	Water	325.2	
680-67898-2 MS	MW-4	Total/NA	Water	325.2	
680-67898-2 MSD	MW-4	Total/NA	Water	325.2	
680-67898-4	MW-4U	Total/NA	Water	325.2	
680-67898-5	MW-9	Total/NA	Water	325.2	
680-67898-6	MW-5	Total/NA	Water	325.2	
680-67898-9	FIELD DUPLICATE	Total/NA	Water	325.2	
680-67898-10	MW-2	Total/NA	Water	325.2	
680-67898-10 DU	MW-2	Total/NA	Water	325.2	
680-67898-8	FIELD BLANK	Total/NA	Water	325.2	
680-67948-1	MW-1	Total/NA	Water	325.2	
680-67898-7	MW-5U	Total/NA	Water	325.2	
680-67948-2	NAT-4	Total/NA	Water	325.2	

### Analysis Batch: 203777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-203777/1	Method Blank	Total/NA	Water	375.4	
LCS 680-203777/2	Lab Control Sample	Total/NA	Water	375.4	
680-67898-3	EQUIPMENT BLANK	Total/NA	Water	375.4	
680-67898-4	MW-4U	Total/NA	Water	375.4	
680-67898-8	FIELD BLANK	Total/NA	Water	375.4	
680-67898-9	FIELD DUPLICATE	Total/NA	Water	375.4	
680-67898-1	VFSP-MW-1	Total/NA	Water	375.4	
680-67898-6	MW-5	Total/NA	Water	375.4	
680-67898-2	MW-4	Total/NA	Water	375.4	
680-67898-2 MS	MW-4	Total/NA	Water	375.4	
680-67898-2 MSD	MW-4	Total/NA	Water	375.4	
680-67898-7	MW-5U	Total/NA	Water	375.4	
680-67948-2	NAT-4	Total/NA	Water	375.4	
680-67898-5	MW-9	Total/NA	Water	375.4	
680-67898-10	MW-2	Total/NA	Water	375.4	
680-67948-1	MW-1	Total/NA	Water	375.4	

# Lab Chronicle

Client: Ashland Inc.  
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1  
SDG: HAQ036

**Client Sample ID: VFSP-MW-1**

**Lab Sample ID: 680-67898-1**  
**Matrix: Water**

Date Collected: 04/29/11 09:15  
Date Received: 04/30/11 10:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202151	05/06/11 02:40	RB	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/13/11 00:23	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/12/11 01:30	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 07:00	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201554	04/30/11 22:21	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:54	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 18:24	KB	TAL SAV
Total/NA	Analysis	325.2		1	2 mL	2 mL	203698	05/21/11 12:18	JR	TAL SAV
Total/NA	Analysis	375.4		5	2 mL	2 mL	203777	05/23/11 12:11	JR	TAL SAV

**Client Sample ID: MW-4**

**Lab Sample ID: 680-67898-2**  
**Matrix: Water**

Date Collected: 04/29/11 10:45  
Date Received: 04/30/11 10:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202151	05/06/11 03:03	RB	TAL SAV
Total/NA	Analysis	8260B	DL	50	5 mL	5 mL	202173	05/06/11 12:50	RB	TAL SAV
Total/NA	Prep	3520C			1047.1 mL	1 mL	202119	05/06/11 14:51	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			204675	06/02/11 14:27	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/13/11 00:46	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/12/11 01:53	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		2			202609	05/11/11 07:07	BR	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 14:06	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201554	04/30/11 22:18	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		2			203380	05/18/11 17:37	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 18:41	KB	TAL SAV
Total/NA	Analysis	325.2		10	2 mL	2 mL	203698	05/21/11 12:46	JR	TAL SAV
Total/NA	Analysis	375.4		10	2 mL	2 mL	203777	05/23/11 12:38	JR	TAL SAV

**Client Sample ID: EQUIPMENT BLANK**

**Lab Sample ID: 680-67898-3**  
**Matrix: Water**

Date Collected: 04/29/11 11:40  
Date Received: 04/30/11 10:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201948	05/04/11 14:28	RB	TAL SAV
Total/NA	Prep	3520C			500 mL	0.5 mL	202119	05/06/11 14:51	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			204675	06/02/11 15:23	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/13/11 01:58	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/12/11 03:05	TC	TAL SAV

TestAmerica Savannah

# Lab Chronicle

Client: Ashland Inc.  
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1  
SDG: HAQ036

## Client Sample ID: EQUIPMENT BLANK

Date Collected: 04/29/11 11:40

Date Received: 04/30/11 10:50

## Lab Sample ID: 680-67898-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 07:28	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201554	04/30/11 22:22	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:54	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 19:37	KB	TAL SAV
Total/NA	Analysis	325.2		1	2 mL	2 mL	203698	05/21/11 12:21	JR	TAL SAV
Total/NA	Analysis	375.4		1	2 mL	2 mL	203777	05/23/11 11:17	JR	TAL SAV

## Client Sample ID: MW-4U

Date Collected: 04/29/11 12:35

Date Received: 04/30/11 10:50

## Lab Sample ID: 680-67898-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202151	05/06/11 03:26	RB	TAL SAV
Total/NA	Analysis	8260B	DL	100	5 mL	5 mL	202173	05/06/11 13:19	RB	TAL SAV
Total/NA	Prep	3520C			1047.6 mL	1 mL	202119	05/06/11 14:51	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			204675	06/02/11 14:55	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/13/11 02:22	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/12/11 03:29	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		2			202609	05/11/11 07:35	BR	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 14:27	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201554	04/30/11 22:24	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		5			203380	05/18/11 17:14	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 19:54	KB	TAL SAV
Total/NA	Analysis	325.2		10	2 mL	2 mL	203698	05/21/11 12:46	JR	TAL SAV
Total/NA	Analysis	375.4		1	2 mL	2 mL	203777	05/23/11 11:17	JR	TAL SAV

## Client Sample ID: MW-9

Date Collected: 04/29/11 14:05

Date Received: 04/30/11 10:50

## Lab Sample ID: 680-67898-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202151	05/06/11 03:49	RB	TAL SAV
Total/NA	Analysis	8260B	DL	50	5 mL	5 mL	202173	05/06/11 13:47	RB	TAL SAV
Total/NA	Prep	3520C			1055.9 mL	1 mL	202119	05/06/11 14:51	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			204675	06/02/11 15:50	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/13/11 02:46	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/12/11 03:53	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 07:42	BR	TAL SAV

# Lab Chronicle

Client: Ashland Inc.  
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1  
SDG: HAQ036

**Client Sample ID: MW-9**

Date Collected: 04/29/11 14:05

Date Received: 04/30/11 10:50

**Lab Sample ID: 680-67898-5**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	2 mL	2 mL	201554	04/30/11 22:25	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:27	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 20:50	KB	TAL SAV
Total/NA	Analysis	325.2		10	2 mL	2 mL	203698	05/21/11 12:46	JR	TAL SAV
Total/NA	Analysis	375.4		50	2 mL	2 mL	203777	05/23/11 12:42	JR	TAL SAV

**Client Sample ID: MW-5**

Date Collected: 04/29/11 11:40

Date Received: 04/30/11 10:50

**Lab Sample ID: 680-67898-6**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202151	05/06/11 04:12	RB	TAL SAV
Total/NA	Analysis	8260B	DL	5	5 mL	5 mL	202173	05/06/11 14:16	RB	TAL SAV
Total/NA	Prep	3520C			1053.5 mL	1 mL	202119	05/06/11 14:51	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			204675	06/02/11 16:18	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/13/11 03:10	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/12/11 04:17	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		4			202609	05/11/11 08:17	BR	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 14:34	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201554	04/30/11 22:26	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:27	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 21:11	KB	TAL SAV
Total/NA	Analysis	325.2		20	2 mL	2 mL	203698	05/21/11 12:46	JR	TAL SAV
Total/NA	Analysis	375.4		5	2 mL	2 mL	203777	05/23/11 12:11	JR	TAL SAV

**Client Sample ID: MW-5U**

Date Collected: 04/29/11 10:40

Date Received: 04/30/11 10:50

**Lab Sample ID: 680-67898-7**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202151	05/06/11 04:35	RB	TAL SAV
Total/NA	Analysis	8260B	DL	20	5 mL	5 mL	202173	05/06/11 14:45	RB	TAL SAV
Total/NA	Prep	3520C			1033.1 mL	1 mL	202119	05/06/11 14:51	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			204675	06/02/11 16:46	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/13/11 03:34	DH	TAL SAV
Total/NA	Analysis	8015B		20	1.0	1 mL	202859	05/13/11 11:35	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/12/11 04:40	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		10			202609	05/11/11 08:24	BR	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 14:41	BR	TAL SAV

TestAmerica Savannah

# Lab Chronicle

Client: Ashland Inc.  
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1  
SDG: HAQ036

**Client Sample ID: MW-5U**

Date Collected: 04/29/11 10:40

Date Received: 04/30/11 10:50

**Lab Sample ID: 680-67898-7**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	2 mL	2 mL	201554	04/30/11 22:30	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:27	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 21:31	KB	TAL SAV
Total/NA	Analysis	325.2		50	2 mL	2 mL	203698	05/21/11 13:03	JR	TAL SAV
Total/NA	Analysis	375.4		20	2 mL	2 mL	203777	05/23/11 12:40	JR	TAL SAV

**Client Sample ID: FIELD BLANK**

Date Collected: 04/29/11 00:00

Date Received: 04/30/11 10:50

**Lab Sample ID: 680-67898-8**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201948	05/04/11 15:25	RB	TAL SAV
Total/NA	Prep	3520C			1053.5 mL	1 mL	202119	05/06/11 14:51	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			204675	06/02/11 17:14	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/13/11 03:58	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/12/11 05:04	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 08:31	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201554	04/30/11 22:31	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:27	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 21:49	KB	TAL SAV
Total/NA	Analysis	325.2		1	2 mL	2 mL	203698	05/21/11 12:54	JR	TAL SAV
Total/NA	Analysis	375.4		1	2 mL	2 mL	203777	05/23/11 11:19	JR	TAL SAV

**Client Sample ID: FIELD DUPLICATE**

Date Collected: 04/29/11 00:00

Date Received: 04/30/11 10:50

**Lab Sample ID: 680-67898-9**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202151	05/06/11 05:21	RB	TAL SAV
Total/NA	Analysis	8260B	DL	5	5 mL	5 mL	202173	05/06/11 15:13	RB	TAL SAV
Total/NA	Prep	3520C			1048.1 mL	1 mL	202119	05/06/11 14:51	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			204675	06/02/11 17:42	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/13/11 04:21	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204805	05/12/11 05:28	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		2			202609	05/11/11 08:38	BR	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 14:48	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201554	04/30/11 22:32	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203165	05/17/11 10:30	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:27	JR	TAL SAV

TestAmerica Savannah

# Lab Chronicle

Client: Ashland Inc.  
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1  
SDG: HAQ036

## Client Sample ID: FIELD DUPLICATE

Date Collected: 04/29/11 00:00

Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 22:08	KB	TAL SAV
Total/NA	Analysis	325.2		20	2 mL	2 mL	203698	05/21/11 12:49	JR	TAL SAV
Total/NA	Analysis	375.4		5	2 mL	2 mL	203777	05/23/11 12:09	JR	TAL SAV

## Client Sample ID: MW-2

Date Collected: 04/29/11 14:30

Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202151	05/06/11 04:58	RB	TAL SAV
Total/NA	Analysis	8260B	DL	200	5 mL	5 mL	202173	05/06/11 17:37	RB	TAL SAV
Total/NA	Prep	3520C			1055.0 mL	1 mL	202119	05/06/11 14:51	RBS	TAL SAV
Total/NA	Analysis	8270C LL		1			204675	06/02/11 18:09	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	202840	05/13/11 04:45	DH	TAL SAV
Total/NA	Analysis	8015B		2	1.0	1.0 mL	202859	05/13/11 11:59	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	205003	05/13/11 21:08	TC	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		2			202609	05/12/11 13:54	BR	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 08:45	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201554	04/30/11 22:33	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203166	05/17/11 11:00	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:27	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 22:28	KB	TAL SAV
Total/NA	Analysis	325.2		20	2 mL	2 mL	203698	05/21/11 12:49	JR	TAL SAV
Total/NA	Analysis	375.4		20	2 mL	2 mL	203777	05/23/11 12:42	JR	TAL SAV

## Client Sample ID: TRIP BLANK 4

Date Collected: 04/29/11 00:00

Date Received: 04/30/11 10:50

Lab Sample ID: 680-67898-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	201948	05/04/11 14:56	RB	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	205003	05/13/11 21:32	TC	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	205181	06/07/11 16:31	DH	TAL SAV

## Client Sample ID: MW-1

Date Collected: 05/02/11 09:25

Date Received: 05/03/11 11:28

Lab Sample ID: 680-67948-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202245	05/07/11 15:55	RB	TAL SAV
Total/NA	Analysis	8260B	DL	50	5 mL	5 mL	202323	05/08/11 17:04	RB	TAL SAV
Total/NA	Prep	3520C			1047.6 mL	1 mL	202119	05/06/11 14:51	RBS	TAL SAV

TestAmerica Savannah

# Lab Chronicle

Client: Ashland Inc.  
Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1  
SDG: HAQ036

**Client Sample ID: MW-1**
**Date Collected: 05/02/11 09:25**
**Date Received: 05/03/11 11:28**
**Lab Sample ID: 680-67948-1**
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8270C LL		1			204675	06/02/11 18:37	ND	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	203320	05/17/11 17:26	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204206	05/26/11 16:00	DH	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 08:52	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201794	05/03/11 18:30	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203166	05/17/11 11:00	DAM	TAL SAV
Total/NA	Analysis	351.2		1			203380	05/18/11 15:27	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 22:46	KB	TAL SAV
Total/NA	Analysis	325.2		5	2 mL	2 mL	203698	05/21/11 12:55	JR	TAL SAV
Total/NA	Analysis	375.4		50	2 mL	2 mL	203777	05/23/11 12:42	JR	TAL SAV

**Client Sample ID: NAT-4**
**Date Collected: 05/02/11 09:55**
**Date Received: 05/03/11 11:28**
**Lab Sample ID: 680-67948-2**
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202245	05/07/11 16:24	RB	TAL SAV
Total/NA	Analysis	8260B	DL	10	5 mL	5 mL	202323	05/08/11 17:32	RB	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	203320	05/17/11 17:50	DH	TAL SAV
Total/NA	Analysis	8015B		1	1.0	1 mL	204206	05/26/11 16:24	DH	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	201997	05/05/11 11:21	RA	TAL SAV
Total/NA	Analysis	6020		1			202609	05/11/11 08:59	BR	TAL SAV
Dissolved	Prep	3005A			50 mL	250 mL	201999	05/05/11 12:02	RA	TAL SAV
Dissolved	Analysis	6020		1			202609	05/11/11 12:42	BR	TAL SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	201794	05/03/11 18:35	JR	TAL SAV
Total/NA	Prep	351.2			20 mL	20 mL	203166	05/17/11 11:00	DAM	TAL SAV
Total/NA	Analysis	351.2		2			203380	05/18/11 17:37	JR	TAL SAV
Total/NA	Analysis	9060		1	25 mL	25 mL	203407	05/17/11 23:05	KB	TAL SAV
Total/NA	Analysis	325.2		2	2 mL	2 mL	203698	05/21/11 13:04	JR	TAL SAV
Total/NA	Analysis	375.4		2	2 mL	2 mL	203777	05/23/11 12:40	JR	TAL SAV

**Client Sample ID: Trip Blank**
**Date Collected: 05/02/11 00:00**
**Date Received: 05/03/11 11:28**
**Lab Sample ID: 680-67948-3**
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	202245	05/07/11 15:26	RB	TAL SAV

**Laboratory References:**

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

**Corrective Action**

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Alternate Laboratory Name/Location

Website: [www.testamericainc.com](http://www.testamericainc.com)  
Phone: (912) 354-7558  
Fax: (912) 352-0165

Phone:  
Fax:

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD		PROJECT REFERENCE		PROJECT LOCATION		MATRIX TYPE		REQUIRED ANALYSIS		PAGE 1 OF 1		
<b>A4U Action</b>		P.O. NUMBER	CONTRACT NO.									
TAL (LAB) PROJECT MANAGER <b>Lia Givizia</b>		CLIENT PHONE	CLIENT FAX									
CLIENT SITE PM <b>Erin Wright</b>		CLIENT E-MAIL										
CLIENT NAME <b>GES</b>												
COMPANY CONTRACTING THIS WORK (if applicable)												
SAMPLE	SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS SUBMITTED						REMARKS			
DATE	TIME											
4/29/11	0915	VFSP-MW-1		GX						X X X X X X X X X X X X X X		
	1045	MW-4		X						X X X X X X X X X X X X X X		
	1050	MS/MSD (MW-4)		X						X X X X X X X X X X X X X X		
	1140	Equipment Blank		X						X X X X X X X X X X X X X X		
	1235	MW-4U		X						X X X X X X X X X X X X X X		
	1405	MW-9		X						X X X X X X X X X X X X X X		
	1140	MW-5		X						X X X X X X X X X X X X X X		
	1040	MW-5U		X						X X X X X X X X X X X X X X		
		Field Blank		X						X X X X X X X X X X X X X X		
		Field Duplicate		X						X X X X X X X X X X X X X X		
	1430	MW-2		X						X X X X X X X X X X X X X X		
		Trip Blank 4		X						X X X X X X X X X X X X X X		
RELINQUISHED BY: (SIGNATURE) <b>Kath Hall</b>		DATE	TIME	RELINQUISHED BY: (SIGNATURE)						DATE	TIME	
RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)						DATE	TIME	
LABORATORY USE ONLY												
RECEIVED FOR LABORATORY <b>J. St. John</b>		DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS					
		04/30/11	1700	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	690-67898	1.2 °C, 1.8 °C, 2.6 °C, 2.0 °C, 1.8 °C, 0.8 °C, 1.4 °C					
TAI 8240-680 (10/08)												

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14

Serial Number 040034

# TestAmerica

---

ANALYSIS REQUEST AND CHAIN OF CUSTODY  
Corrective Action

## ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

**TestAmerica Savannah**  
5102 LaRoche Avenue  
Savannah, GA 31404

### **Alternate Laboratory Name/Location**

THE LEADER IN ENVIRONMENTAL TESTING

Page 151 of 154

## Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-67898-1

SDG Number: HAQ036

**Login Number:** 67898

**List Source:** TestAmerica Savannah

**List Number:** 1

**Creator:** Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	8 coolers rec'd on ice
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	Temp range 0.8 - 2.2 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	1L amber from sample Equip blank rec'd broken.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-67898-1

SDG Number: HAQ036

**Login Number:** 67948

**List Source:** TestAmerica Savannah

**List Number:** 1

**Creator:** Conner, Keaton

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2 coolers rec'd on ice
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5 and 0.8 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	Insufficient volume received for MS/MSD.
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

# Certification Summary

Client: Ashland Inc.

Project/Site: Aqualon Hopewell - GW CA APR 2011

TestAmerica Job ID: 680-67898-1

SDG: HAQ036

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP	0	0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025	0	399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA	0	SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.